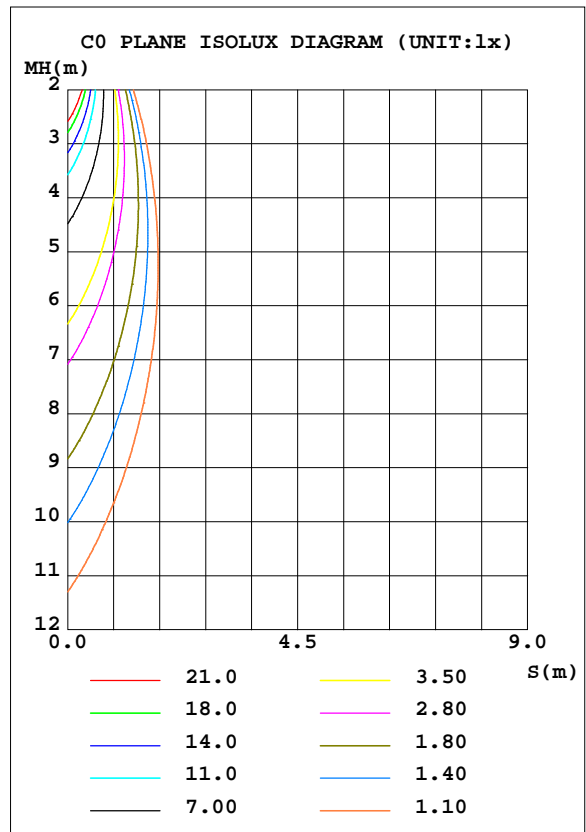
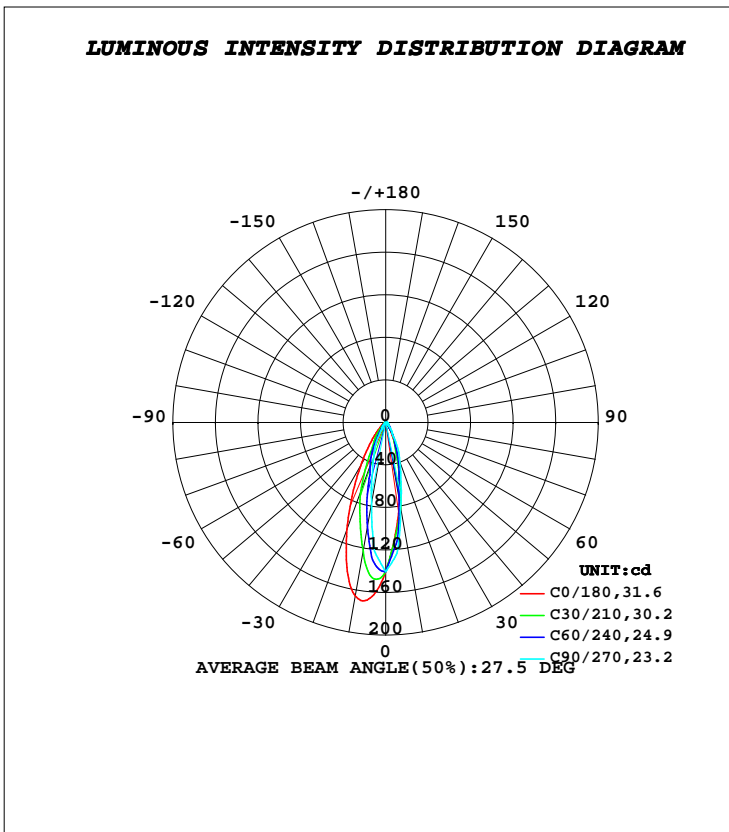


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	KS-TMDM-1W-D	Imax(cd)	169.0	S/MH(C0/180)	0.78
NOMINAL POWER(W)	1	LOR(%)	100.0	S/MH(C90/270)	0.37
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	56.384	η UP, DN(C0-180)	0.0,51.7
NOMINAL FLUX(lm)	56.3837	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	η down(%)	100.0	CIBSE SHR MAX	1.00



**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

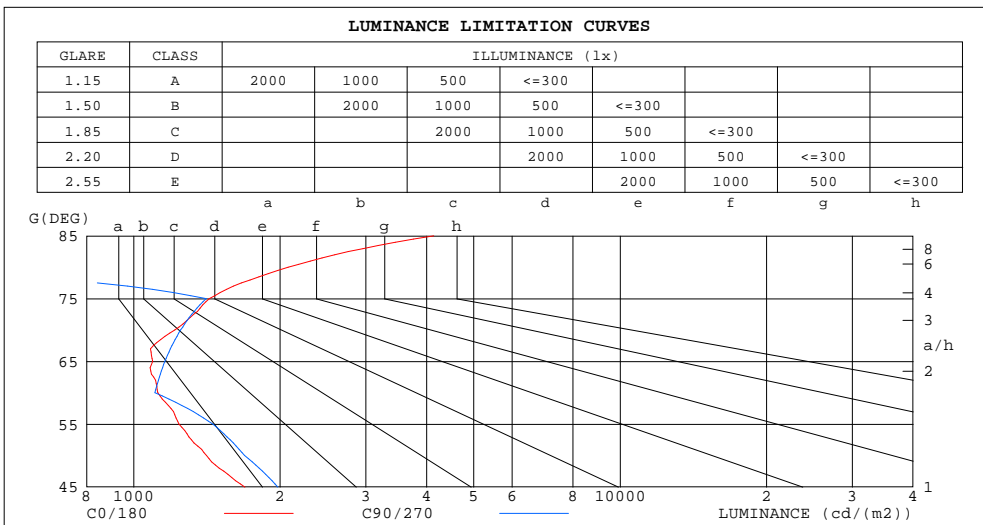
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	74.96	76.25	81.19	114.8	165.7	111.7	76.76	73.39	0- 10	11.01	11.01	19.5,19.5
20	31.11	32.61	38.75	54.27	106.6	48.04	32.59	28.06	10- 20	18.48	29.48	52.3,52.3
30	10.12	11.55	13.10	27.39	47.43	22.26	7.921	9.382	20- 30	13.53	43.01	76.3,76.3
40	3.402	3.425	6.170	8.751	17.14	5.905	3.570	2.518	30- 40	6.684	49.69	88.1,88.1
50	1.813	1.649	2.174	3.782	5.625	2.484	1.246	1.339	40- 50	2.959	52.65	93.4,93.4
60	1.120	1.050	1.105	1.665	2.521	1.188	0.9482	0.9280	50- 60	1.537	54.19	96.1,96.1
70	0.8306	0.8465	0.8542	1.003	1.591	0.9337	0.8855	0.8206	60- 70	1.088	55.28	98,98
80	0.7210	0.6171	0	0.6904	1.078	0.6649	0	0.6210	70- 80	0.8643	56.14	99.6,99.6
90	0.7015	0	0	0	0.8017	0	0	0	80- 90	0.2409	56.38	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**

**LUMINANCE LIMITATION CURVES**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4136	0
80	2076	0
75	1430	1408
70	1214	1249
65	1094	1159
60	1120	1105
55	1239	1455
50	1410	1691
45	1692	1978

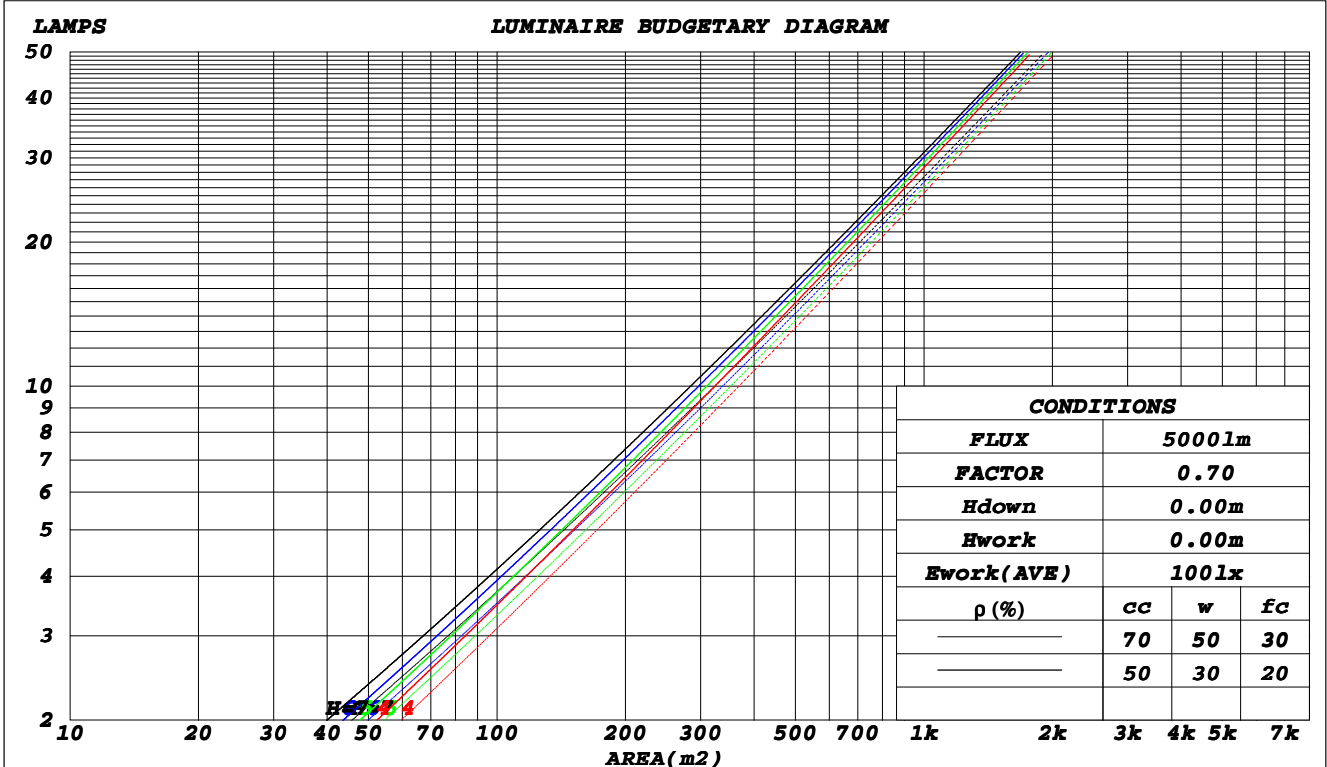
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Coefficients of Utilization(CU)</b>									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.89	.87
3.0	.96	.92	.88	.95	.91	.87	.92	.89	.86	.90	.87	.84	.88	.85	.83	.81
4.0	.91	.85	.81	.90	.85	.81	.87	.83	.80	.86	.82	.79	.84	.81	.78	.77
5.0	.86	.80	.76	.85	.80	.76	.83	.78	.75	.81	.77	.74	.80	.76	.74	.72
6.0	.81	.76	.72	.80	.75	.71	.79	.74	.71	.78	.73	.70	.76	.73	.70	.68
7.0	.77	.72	.68	.77	.71	.67	.75	.71	.67	.74	.70	.67	.73	.69	.66	.65
8.0	.74	.68	.64	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.63	.62
9.0	.70	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
10.0	.67	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.65	.61	.58	.57



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-08-09

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

WEC AND CCEC

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.183	.104	.033	.176	.100	.032	.163	.094	.030	.152	.087	.028	.141	.082	.026	
2.0	.171	.094	.029	.166	.091	.028	.155	.086	.027	.145	.081	.026	.136	.077	.024	
3.0	.160	.085	.026	.156	.083	.025	.147	.079	.024	.138	.076	.023	.130	.072	.022	
4.0	.151	.078	.023	.146	.077	.023	.139	.074	.022	.131	.071	.021	.125	.068	.021	
5.0	.142	.072	.021	.138	.071	.021	.131	.068	.020	.125	.066	.020	.119	.064	.019	
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.119	.062	.018	.114	.060	.018	
7.0	.127	.063	.018	.124	.062	.018	.119	.060	.017	.114	.059	.017	.110	.057	.017	
8.0	.121	.059	.017	.118	.058	.016	.114	.057	.016	.109	.055	.016	.105	.054	.016	
9.0	.115	.056	.016	.113	.055	.015	.109	.054	.015	.105	.053	.015	.101	.051	.015	
10.0	.110	.053	.015	.108	.052	.015	.104	.051	.014	.101	.050	.014	.097	.049	.014	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.143	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.078	.059	.045	.045	.035	.026	.015	.011	.009	
5.0	.123	.087	.060	.106	.075	.052	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.037	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.064	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.083	.050	.028	.058	.035	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.018	.032	.019	.010	.010	.006	.003	

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-08-09

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm										
NAME: KS-TMDM-1W-D					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:KS-TMDM-1W-D		
MFR.: KAMS					SUR.:			Shielding Angle:		
<b>ceiling/cavity</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>walls</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>working plane</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	<b>18.3</b>	<b>19.2</b>	<b>18.5</b>	<b>19.3</b>	<b>19.5</b>	<b>18.9</b>	<b>19.8</b>	<b>19.1</b>	<b>19.9</b>	<b>20.1</b>
<b>3H</b>	<b>19.5</b>	<b>20.4</b>	<b>19.8</b>	<b>20.6</b>	<b>20.8</b>	<b>19.9</b>	<b>20.8</b>	<b>20.2</b>	<b>21.0</b>	<b>21.2</b>
<b>4H</b>	<b>20.5</b>	<b>21.3</b>	<b>20.7</b>	<b>21.5</b>	<b>21.7</b>	<b>20.6</b>	<b>21.4</b>	<b>20.9</b>	<b>21.6</b>	<b>21.9</b>
<b>6H</b>	<b>21.7</b>	<b>22.4</b>	<b>22.0</b>	<b>22.6</b>	<b>22.9</b>	<b>20.8</b>	<b>21.5</b>	<b>21.0</b>	<b>21.7</b>	<b>22.0</b>
<b>8H</b>	<b>22.4</b>	<b>23.1</b>	<b>22.7</b>	<b>23.4</b>	<b>23.7</b>	<b>20.7</b>	<b>21.4</b>	<b>21.0</b>	<b>21.7</b>	<b>21.9</b>
<b>12H</b>	<b>23.4</b>	<b>24.1</b>	<b>23.7</b>	<b>24.4</b>	<b>24.6</b>	<b>20.7</b>	<b>21.4</b>	<b>21.0</b>	<b>21.6</b>	<b>21.9</b>
<b>4H 2H</b>	<b>18.6</b>	<b>19.4</b>	<b>18.9</b>	<b>19.6</b>	<b>19.8</b>	<b>19.1</b>	<b>19.9</b>	<b>19.4</b>	<b>20.1</b>	<b>20.4</b>
<b>3H</b>	<b>20.3</b>	<b>21.0</b>	<b>20.6</b>	<b>21.2</b>	<b>21.5</b>	<b>20.6</b>	<b>21.3</b>	<b>20.9</b>	<b>21.5</b>	<b>21.8</b>
<b>4H</b>	<b>21.4</b>	<b>22.0</b>	<b>21.8</b>	<b>22.3</b>	<b>22.7</b>	<b>21.5</b>	<b>22.2</b>	<b>21.9</b>	<b>22.5</b>	<b>22.8</b>
<b>6H</b>	<b>22.9</b>	<b>23.5</b>	<b>23.3</b>	<b>23.8</b>	<b>24.1</b>	<b>21.7</b>	<b>22.3</b>	<b>22.1</b>	<b>22.6</b>	<b>23.0</b>
<b>8H</b>	<b>23.8</b>	<b>24.3</b>	<b>24.2</b>	<b>24.7</b>	<b>25.1</b>	<b>21.7</b>	<b>22.2</b>	<b>22.1</b>	<b>22.5</b>	<b>22.9</b>
<b>12H</b>	<b>25.0</b>	<b>25.4</b>	<b>25.4</b>	<b>25.8</b>	<b>26.2</b>	<b>21.6</b>	<b>22.1</b>	<b>22.0</b>	<b>22.5</b>	<b>22.9</b>
<b>8H 4H</b>	<b>22.0</b>	<b>22.5</b>	<b>22.4</b>	<b>22.8</b>	<b>23.2</b>	<b>22.1</b>	<b>22.6</b>	<b>22.5</b>	<b>22.9</b>	<b>23.3</b>
<b>6H</b>	<b>23.7</b>	<b>24.2</b>	<b>24.2</b>	<b>24.6</b>	<b>25.0</b>	<b>22.3</b>	<b>22.8</b>	<b>22.7</b>	<b>23.1</b>	<b>23.6</b>
<b>8H</b>	<b>24.9</b>	<b>25.3</b>	<b>25.3</b>	<b>25.7</b>	<b>26.1</b>	<b>22.3</b>	<b>22.6</b>	<b>22.7</b>	<b>23.1</b>	<b>23.5</b>
<b>12H</b>	<b>26.3</b>	<b>26.6</b>	<b>26.7</b>	<b>27.0</b>	<b>27.5</b>	<b>22.2</b>	<b>22.5</b>	<b>22.7</b>	<b>23.0</b>	<b>23.4</b>
<b>12H 4H</b>	<b>22.0</b>	<b>22.4</b>	<b>22.4</b>	<b>22.8</b>	<b>23.2</b>	<b>22.2</b>	<b>22.7</b>	<b>22.6</b>	<b>23.1</b>	<b>23.4</b>
<b>6H</b>	<b>23.8</b>	<b>24.1</b>	<b>24.2</b>	<b>24.6</b>	<b>25.0</b>	<b>22.5</b>	<b>22.9</b>	<b>22.9</b>	<b>23.3</b>	<b>23.7</b>
<b>8H</b>	<b>24.9</b>	<b>25.2</b>	<b>25.4</b>	<b>25.7</b>	<b>26.2</b>	<b>22.4</b>	<b>22.7</b>	<b>22.9</b>	<b>23.2</b>	<b>23.7</b>
<b>Variations with the observer position at spacings:</b>										
<b>S = 1.0H</b>	<b>+ 0.3 / - 0.3</b>					<b>+ 1.0 / - 0.7</b>				
<b>1.5H</b>	<b>+ 0.3 / - 0.2</b>					<b>+ 2.2 / - 0.9</b>				
<b>2.0H</b>	<b>+ 0.2 / - 0.3</b>					<b>+ 0.5 / - 0.7</b>				

CIE Pub.117, 56.38 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -10.0$ )

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**

**UTILIZATION FACTORS TABLE**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

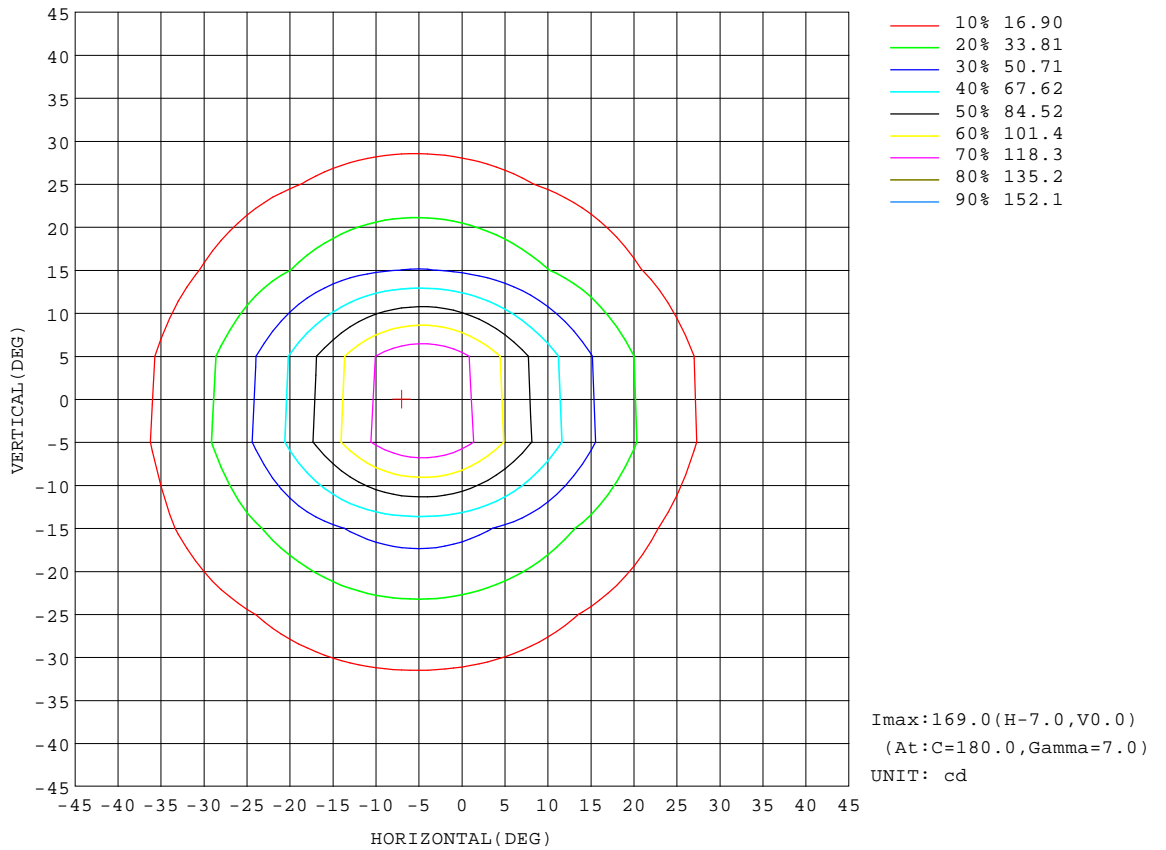
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS(PERCENT) <math>k(RI) \times RCR = 5</math></b>									
<b>k = 0.60</b>	84	77	73	84	77	73	83	77	73	69
<b>0.80</b>	92	85	81	91	85	81	90	84	81	77
<b>1.00</b>	97	90	86	96	90	86	94	90	86	81
<b>1.25</b>	101	95	91	100	95	91	98	93	90	86
<b>1.50</b>	104	99	95	103	98	94	100	96	93	88
<b>2.00</b>	107	102	99	105	101	98	103	99	96	91
<b>2.50</b>	109	105	101	107	103	100	104	101	98	92
<b>3.00</b>	111	107	104	109	105	103	105	103	100	94
<b>4.00</b>	113	110	107	111	108	106	107	105	103	96
<b>5.00</b>	114	112	110	112	110	108	108	106	105	97
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
<b>According to DIN EN 13032-2 2004</b>			<b>Suspended</b>					<b>SHRNOM = 1.25</b>		

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2022-08-09

V(B) Range:-75 - 75DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:65.0%  
Test Distance:9.200m [K=1.0000]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:



**H( $\beta$ ) Range: -90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-08-09**

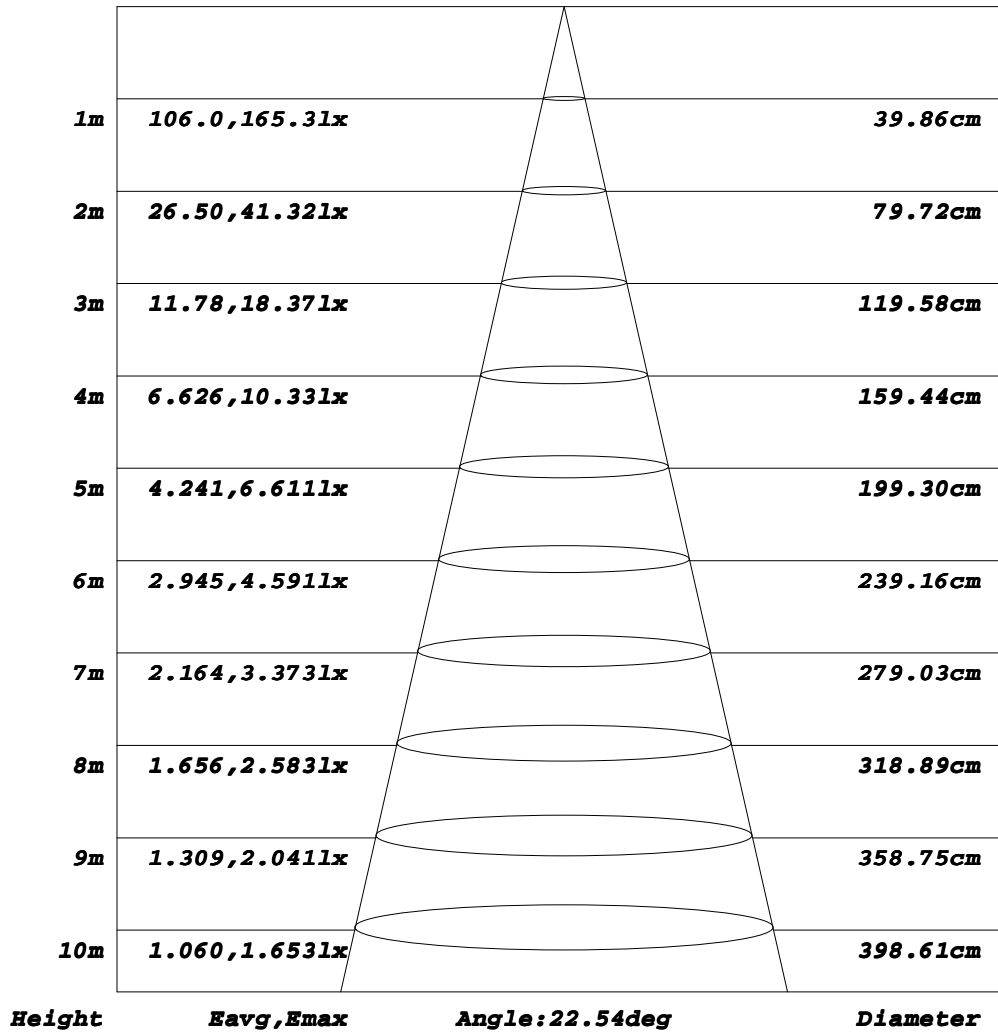
**V(B) Range: -75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 9.200m [K=1.0000]**  
**Remarks:**



**AAI Figure**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

Flux out:13.79 lm



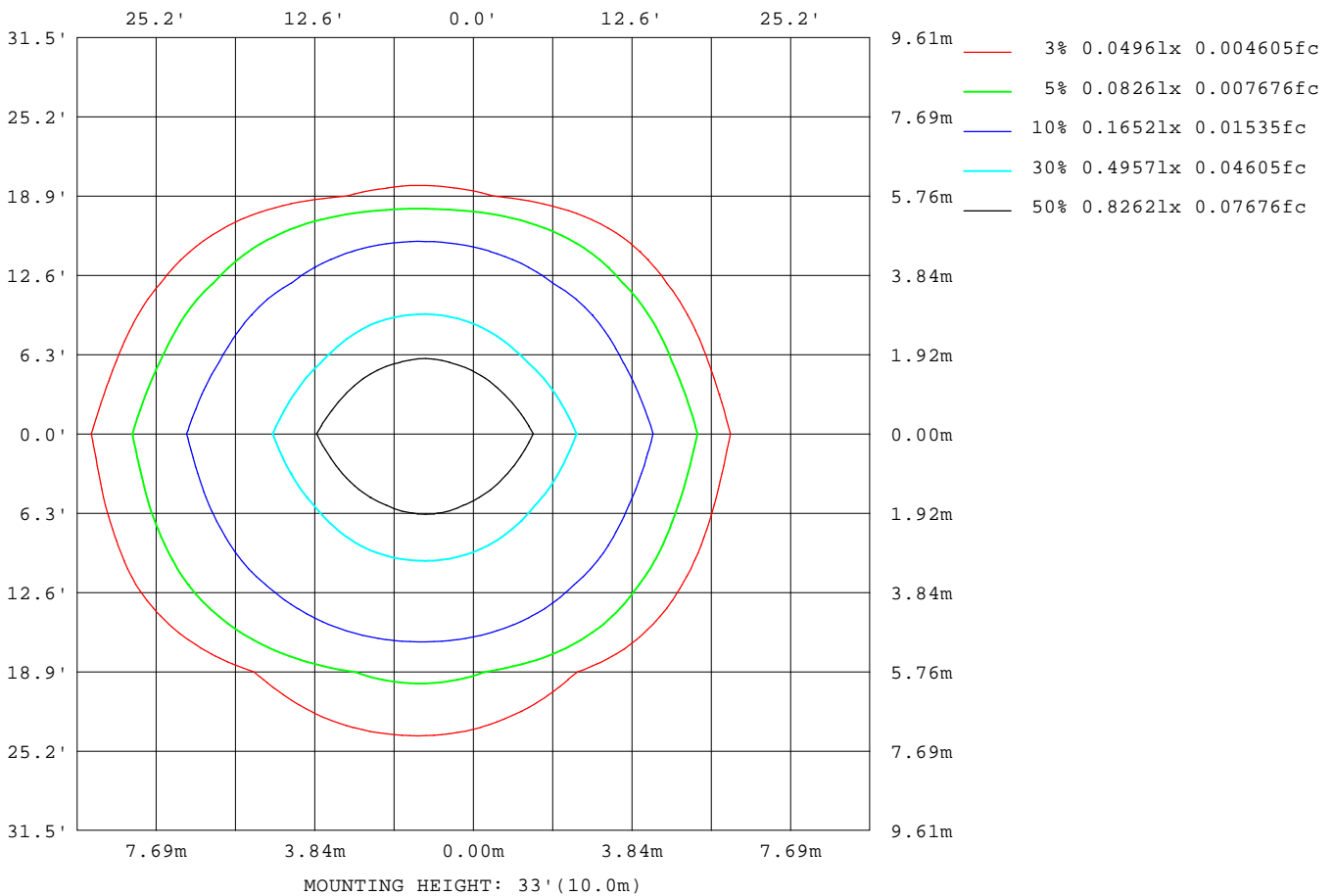
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range: -90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2022-08-09

V(B) Range: -75 - 75DEG  
 V(B) Interval: 5.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 65.0%  
 Test Distance: 9.200m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**

LED Avg.L Report

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

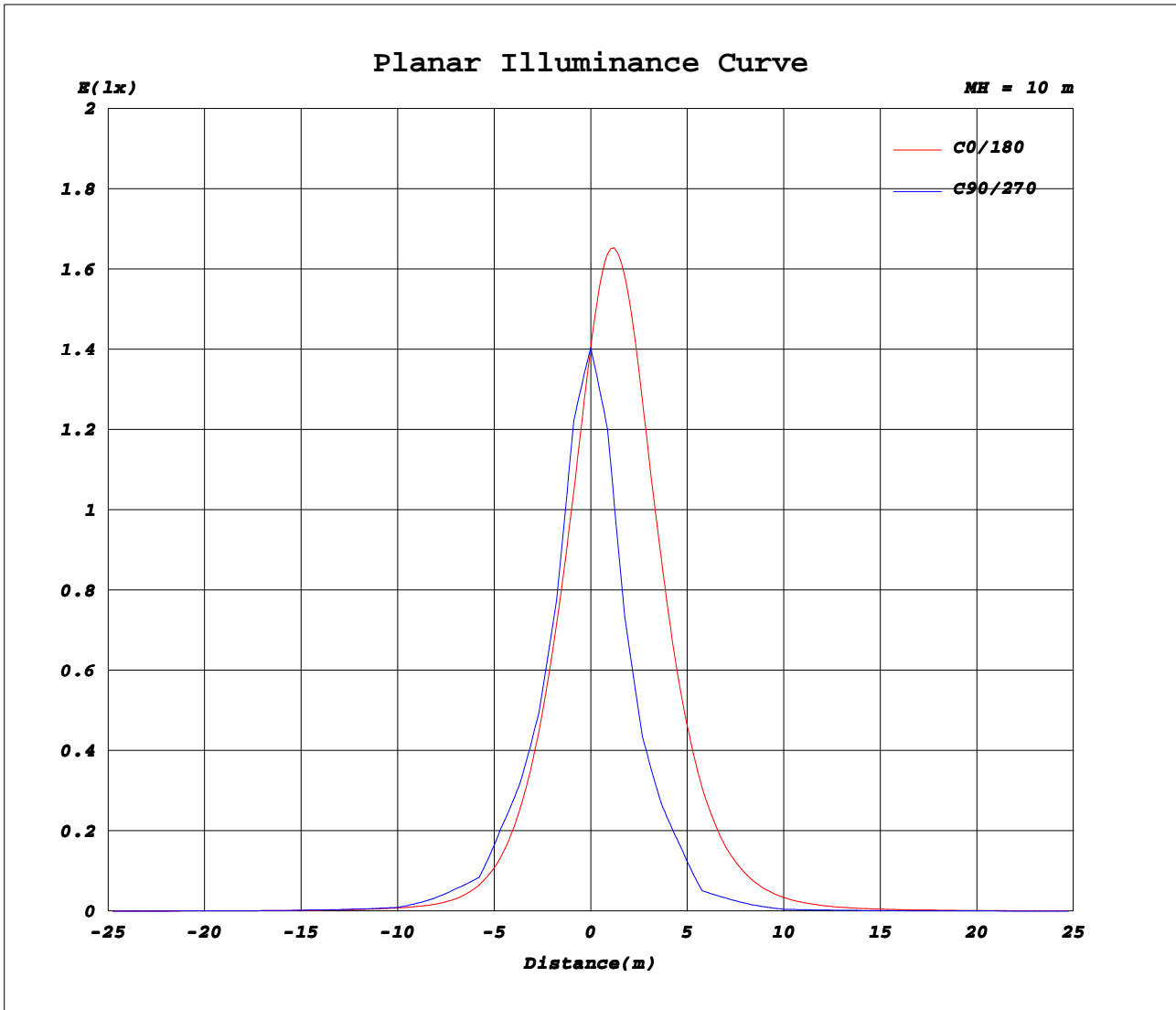
AvgL	cd/m2
L_0~180(65)av	1704
L_0~180(75)av	1972
L_0~180(85)av	4755
L_90~270(65)av	1120
L_90~270(75)av	1529
L_90~270(85)av	0
L_45(65)av	1197
L_45(75)av	1648
L_45(85)av	0

Standard: GB/T 29293-2012

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**

Planar Illuminance Curve



**H( $\beta$ ) Range: -90 - 90DEG**  
**H( $\beta$ ) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-08-09**

**V(B) Range: -75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 9.200m [K=1.0000]**  
**Remarks:**



**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:24.000V I:0.0620A P:1.0000W PF:1.0000 Freq:50.00Hz Lamp Flux:56.3837x1 lm		
NAME: KS-TMDM-1W-D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:KS-TMDM-1W-D
MFR.: KAMS	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140
5	125	127	128	130	132	134	136	138	140	142	145	148	150	153	156	160	163	166	162
10	84.1	87.5	91.2	95.1	99.1	103	107	111	115	118	122	125	131	137	143	150	158	166	157
15	56.5	58.3	60.7	63.7	67.3	71.6	76.3	81.5	87.1	92.3	94.9	97.1	98.8	101	109	119	130	141	129
20	40.5	42.5	44.4	46.2	47.8	49.1	50.1	50.9	54.3	60.7	67.0	73.3	74.5	74.1	73.8	82.3	94.0	107	93.2
25	28.6	29.6	30.9	32.3	34.0	35.8	37.9	39.7	40.0	39.9	39.6	46.0	52.0	54.1	51.9	51.9	62.3	73.5	61.4
30	14.0	15.3	16.8	18.5	20.1	21.5	22.8	24.9	27.4	30.0	29.8	28.8	31.1	36.1	36.2	33.1	38.5	47.4	37.7
35	10.5	10.9	11.2	11.5	11.8	12.1	12.6	14.1	15.2	16.8	19.6	21.2	19.6	20.9	24.7	21.6	22.5	29.1	21.8
40	6.59	7.02	7.42	7.75	7.93	7.94	7.99	8.37	8.75	9.55	10.2	12.2	14.0	12.2	13.9	14.0	12.5	17.1	12.0
45	2.95	3.20	3.63	4.14	4.66	5.15	5.45	5.41	5.29	5.73	6.18	6.40	7.57	8.39	7.27	9.13	6.76	9.79	6.39
50	2.27	2.33	2.40	2.46	2.48	2.48	2.73	3.33	3.78	3.73	3.71	4.18	4.18	4.92	4.78	5.13	4.36	5.63	4.06
55	1.71	1.75	1.81	1.87	1.92	1.99	2.02	2.03	2.02	2.44	2.71	2.60	2.98	2.86	3.48	3.06	3.09	3.52	2.85
60	1.12	1.16	1.22	1.29	1.37	1.43	1.49	1.57	1.66	1.67	1.68	2.01	2.00	2.28	2.19	2.29	2.40	2.52	2.20
65	0.99	1.02	1.05	1.06	1.07	1.08	1.08	1.15	1.22	1.30	1.40	1.41	1.56	1.65	1.85	1.93	1.92	1.96	1.76
70	0.86	0.88	0.94	0.97	0.98	0.98	0.98	0.98	1.00	1.01	1.09	1.17	1.26	1.32	1.39	1.43	1.45	1.59	1.34
75	0.75	0.80	0.87	0.88	0.89	0.89	0.90	0.91	0.92	0.94	0.96	0.99	1.03	1.10	1.12	1.22	1.21	1.30	1.13
80	0.01	0.02	0.06	0.11	0.17	0.26	0.37	0.51	0.69	0.86	0.88	0.90	0.91	0.94	0.94	0.93	0.99	1.08	0.93
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.74	0.86	0.86	0.84	0.94	0.80
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00

**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 1.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-08-09**

**V(B) Range:-75 - 75DEG**  
**V(B) Interval: 5.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:9.200m [K=1.0000]**  
**Remarks:**



