

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		8036.9 cd per klm.
(Luminaire orientation as tested.)		0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of I _{max}	32.8V x 32.9H
	At 50% of I _{max}	15.0V x 15.1H
	At 90% of I _{max}	5.9V x 5.9H
Beam Flux	Total	1001.2 lumens per klm.
	To 10% of I _{max}	675.4 lumens per klm.
	To 50% of I _{max}	321.5 lumens per klm.
	To 90% of I _{max}	61.9 lumens per klm.
	Upward LOR	0.2 %
	Downward LOR	99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

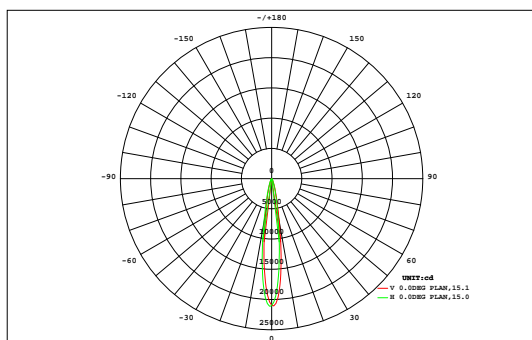
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2023-08-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.917m [K=1.0000]
Remarks: TG-13M-25W-9(3535 40K RA70 NE25L06)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.24V I:0.1116A P:23.510W PF:0.9519 Freq:50.01Hz Lamp Flux:2640.7x1 lm		
NAME: TG-13M-25W-9	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:112.32lm/W	
MODEL 3535	40K RA70 NE25	Imax(cd)	21223
NOMINAL POWER(W)	25	AVAILABILITY(%)	67.3
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1778
NOMINAL FLUX(lm)	2640.7	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2641
TEST VOLTAGE(V)	220	θ @50%(H,V)	15,15DEG

		AREA FLUX DIAGRAM																UNIT:lm			Φ t	Φ a											
		0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.05	0.04	0.02	0.01	0.01	0.00	0.00	0.00														
VERTICAL (DEG)	90	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.05	0.04	0.02	0.01	0.01	0.00	0.00	0.00	0.42	0.00												
	80	0.00	0.00	0.02	0.05	0.12	0.21	0.30	0.35	0.38	0.37	0.33	0.26	0.17	0.09	0.03	0.01	0.00	0.00	2.70	0.00												
	70	0.00	0.01	0.06	0.17	0.36	0.60	0.81	0.96	1.04	1.03	0.93	0.76	0.53	0.30	0.13	0.03	0.00	0.00	7.72	0.00												
	60	0.00	0.02	0.12	0.34	0.71	1.14	1.55	1.89	2.08	2.07	1.85	1.49	1.06	0.62	0.29	0.09	0.01	0.00	15.3	0.00												
	50	0.00	0.03	0.19	0.54	1.11	1.83	2.68	3.55	4.11	4.08	3.45	2.56	1.72	1.00	0.47	0.15	0.02	0.00	27.5	0.00												
	40	0.00	0.05	0.27	0.75	1.57	2.83	4.74	6.86	8.35	8.25	6.65	4.47	2.63	1.42	0.65	0.22	0.03	0.00	49.7	0.00												
	30	0.00	0.06	0.33	0.94	2.08	4.28	8.04	14.5	21.8	20.8	13.3	7.47	3.94	1.88	0.82	0.28	0.04	0.00	101	0.00												
	-30	0.00	0.07	0.38	1.08	2.59	5.80	13.6	39.6	89.4	81.7	33.1	11.8	5.33	2.33	0.96	0.32	0.05	0.00	288	144												
		0.00	0.07	0.40	1.15	2.89	6.82	19.8	86.2	369	317	68.3	16.3	6.31	2.63	1.04	0.34	0.05	0.00	898	800												
		0.00	0.07	0.39	1.13	2.86	6.76	19.4	84.4	334	289	66.9	16.1	6.29	2.60	1.02	0.34	0.05	0.00	831	732												
		0.00	0.06	0.36	1.03	2.49	5.62	12.8	34.6	73.3	67.9	29.2	11.3	5.24	2.24	0.92	0.30	0.04	0.00	247	101												
		0.00	0.05	0.30	0.86	1.93	4.05	7.46	12.8	18.3	17.7	12.0	7.05	3.74	1.74	0.76	0.24	0.03	0.00	89.0	0.00												
		0.00	0.03	0.22	0.64	1.38	2.55	4.33	6.23	7.48	7.39	6.02	4.06	2.33	1.25	0.55	0.17	0.02	0.00	44.7	0.00												
		0.00	0.02	0.13	0.40	0.86	1.44	2.10	2.75	3.15	3.11	2.65	1.98	1.33	0.75	0.33	0.09	0.01	0.00	21.1	0.00												
		0.00	0.01	0.05	0.19	0.43	0.73	1.04	1.27	1.39	1.38	1.24	0.98	0.67	0.37	0.15	0.03	0.00	0.00	9.94	0.00												
	-60	0.00	0.00	0.01	0.05	0.13	0.25	0.37	0.46	0.50	0.50	0.44	0.33	0.20	0.10	0.03	0.01	0.00	0.00	3.37	0.00												
-70	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.20	0.00													
-80	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	0.00	0.01	0.00													
-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	0.00	0.01	0.00													
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL(DEG)																20	30	40	50	60	70	80	90
Φ t	0.02	0.55	3.22	9.34	21.5	45.0	99.1	296	934	822	246	86.9	41.5	19.3	8.14	2.63	0.38	0.01	2636	---													
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	147	824	711	95.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	1778													

one-half-peak spread: U:7.9,D:7.2 , L:7.2,R:8.0

NEMA Beam Type: Type 3

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2023-08-18

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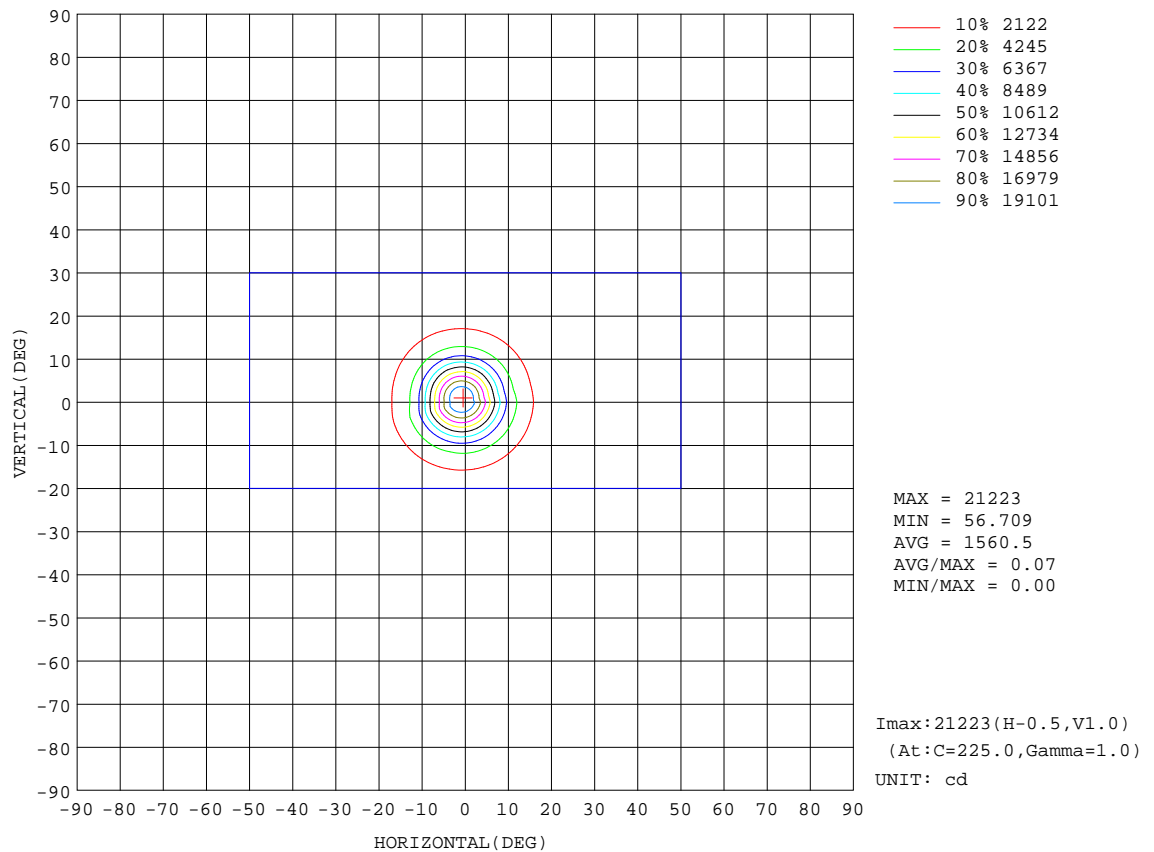
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.917m [K=1.0000]
Remarks: TG-13M-25W-9(3535 40K RA70 NE25L06)

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ISOCANDELA DIAGRAM

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SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



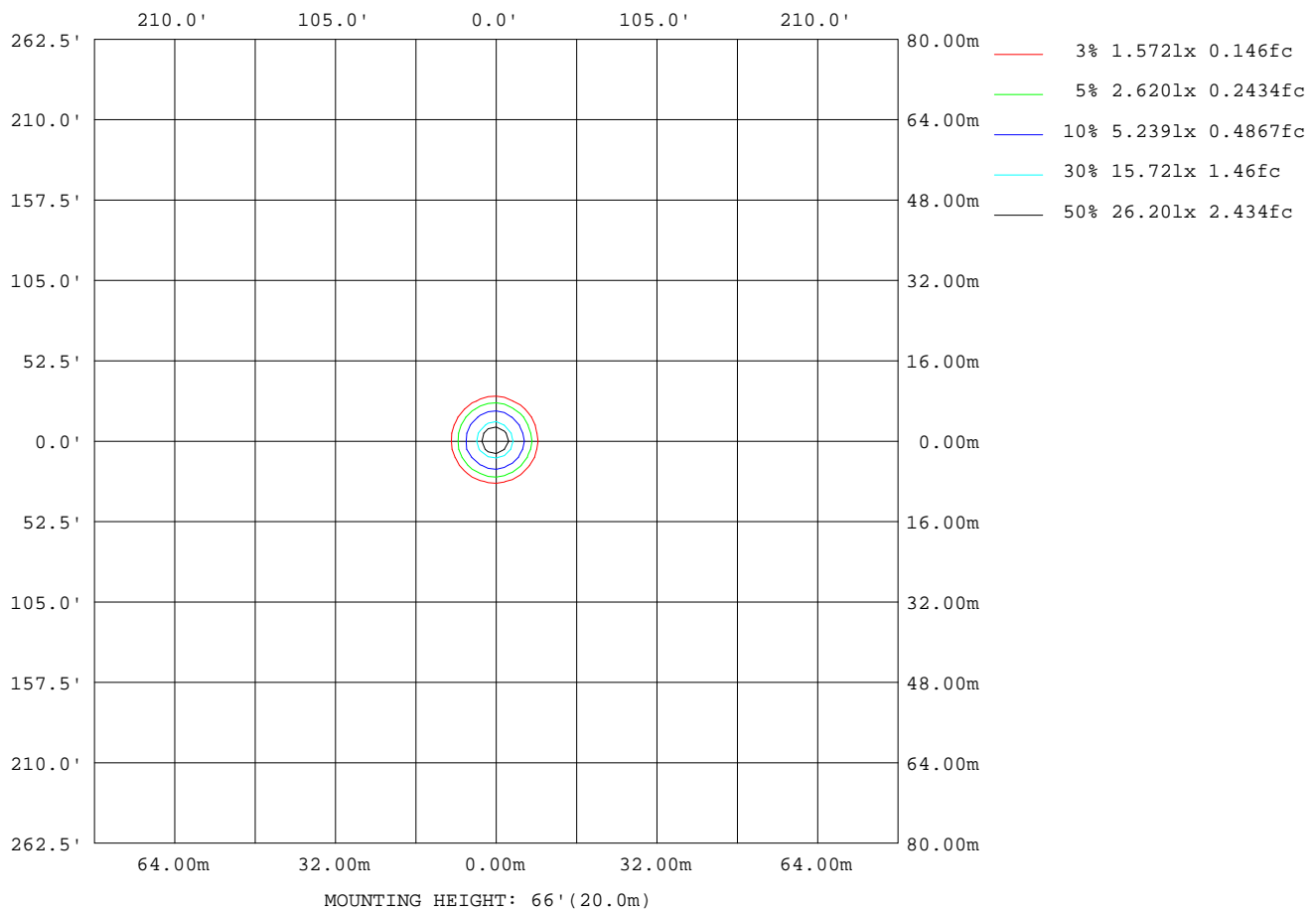
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

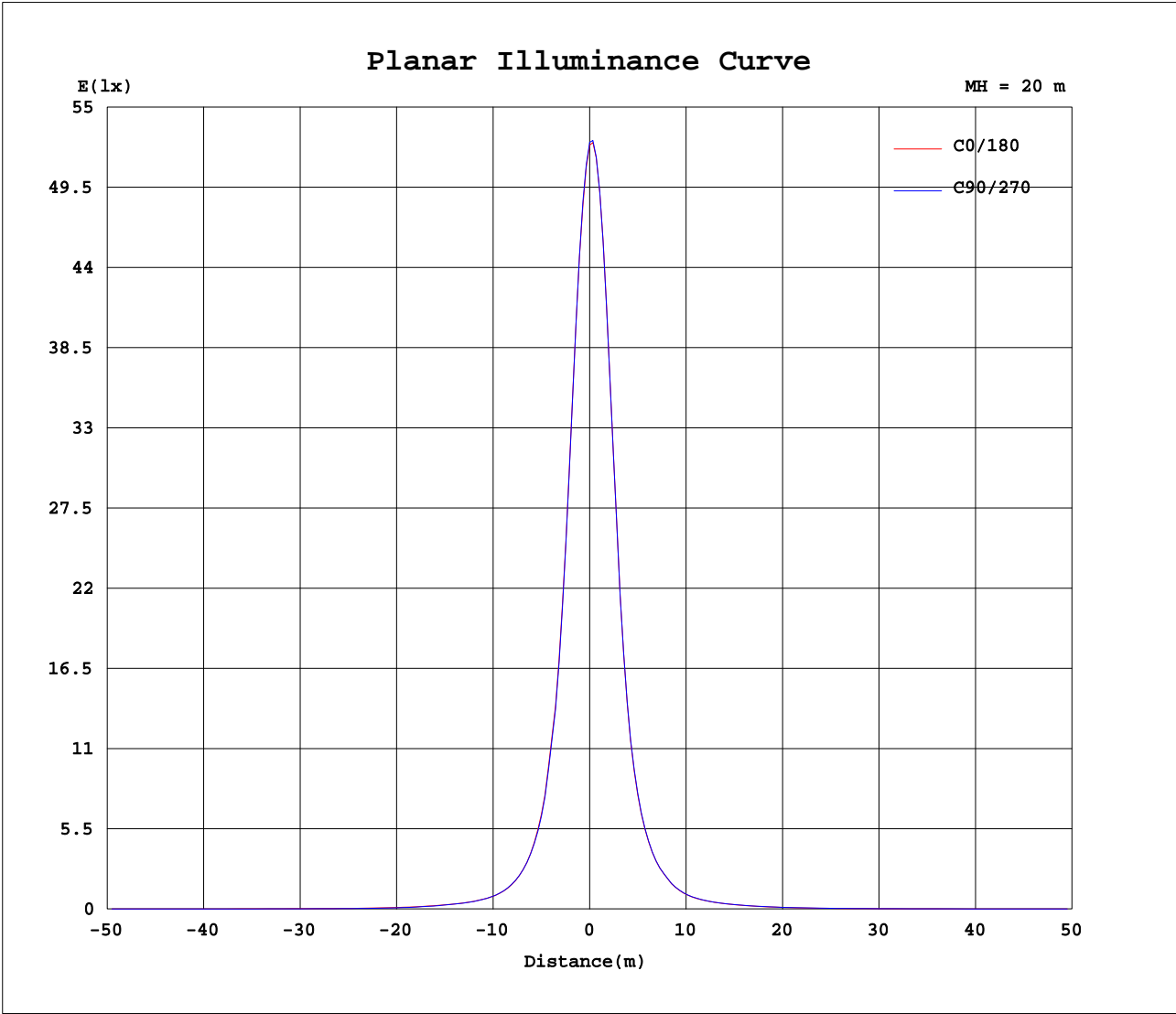
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MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
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γ Range: 0 - 180DEG
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Planar Illuminance Curve

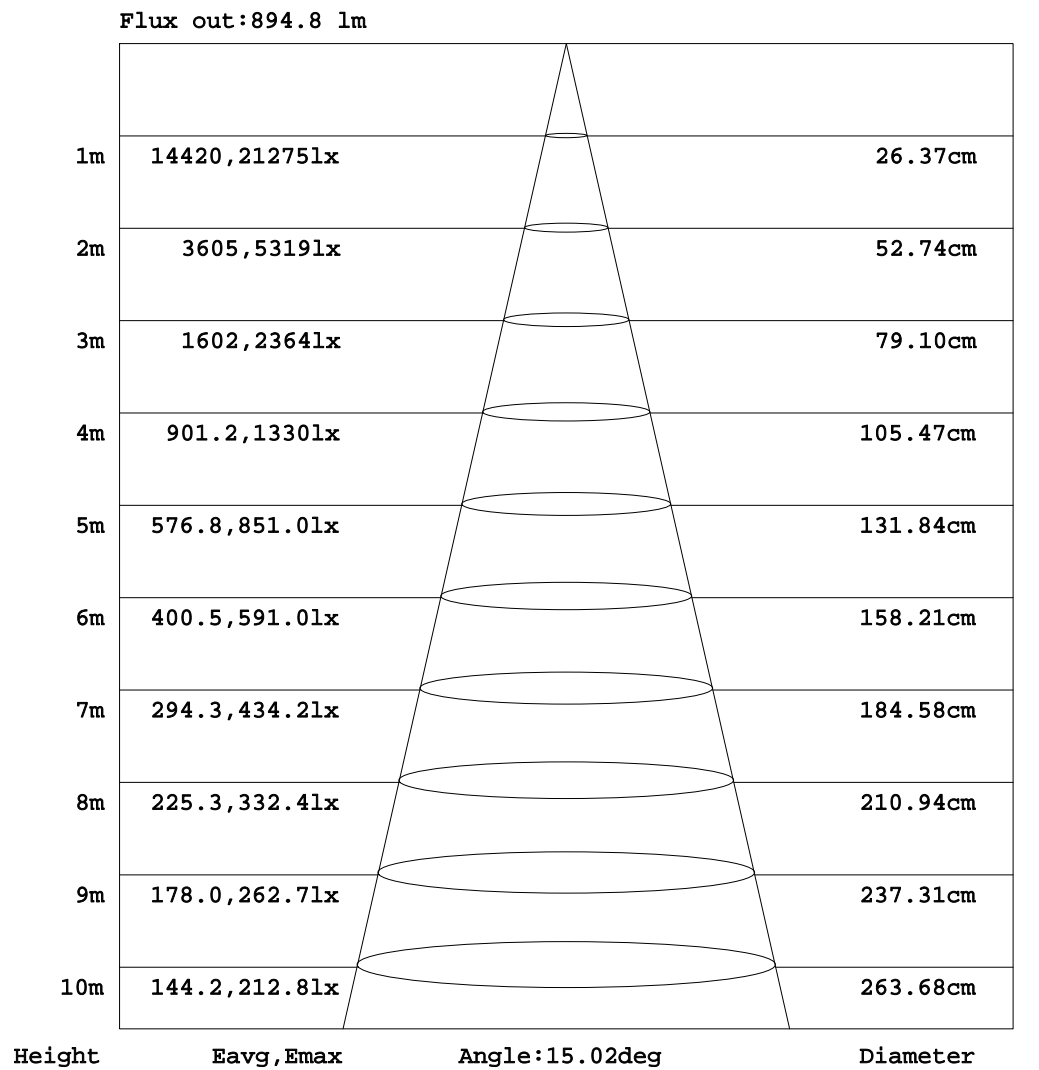


C Range: 0 - 360DEG	γ Range: 0 - 180DEG
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AAI Figure

Test:U:221.24V I:0.1116A P:23.510W PF:0.9519 Freq:50.01Hz Lamp Flux:2640.7x1 lm		
NAME: TG-13M-25W-9	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



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

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
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 Operators:CS01
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.24V I:0.1116A P:23.510W PF:0.9519 Freq:50.01Hz Lamp Flux:2640.7x1 lm																	
NAME: TG-13M-25W-9									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: KLED									SUR.:						Shielding Angle:		

Table--1

UNIT: x10cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.08	0.14	0.20	0.35	0.42	0.38	0.33	0.23	0.14	0.07
-170	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.08	0.09	0.08	0.10	0.10	0.09	0.09	0.09	0.09
-160	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.06	0.09	0.11	0.11	0.11	0.11	0.11	0.11
-150	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.07	0.10	0.11	0.12	0.13	0.13	0.13
-140	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.08	0.09	0.09	0.10
-130	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.03
-120	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-110	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-100	0.01	0.01	0.01	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
-90	0.01	0.01	0.01	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
-80	0.01	0.01	0.01	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
-70	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.06	0.10	0.16	0.22	0.30	0.38	0.44	0.51	0.59	0.63	0.65	0.63
-60	0.01	0.01	0.02	0.03	0.07	0.18	0.36	0.61	0.86	1.22	1.55	1.87	2.25	2.55	2.78	2.98	3.09	3.16	3.17
-50	0.01	0.02	0.03	0.09	0.28	0.63	1.09	1.58	2.17	2.86	3.46	4.11	4.73	5.26	5.69	6.10	6.36	6.57	6.60
-40	0.01	0.02	0.05	0.21	0.61	1.30	2.01	2.94	4.02	5.12	6.29	7.70	9.18	10.8	12.7	14.4	15.6	16.4	16.4
-30	0.01	0.02	0.09	0.38	1.03	1.94	3.04	4.22	5.75	7.54	9.75	12.9	16.7	20.7	24.8	28.9	32.5	35.3	36.0
-20	0.01	0.02	0.13	0.56	1.40	2.45	3.77	5.29	7.31	10.0	14.0	19.2	25.4	33.8	47.0	64.9	87.7	106	111
-10	0.01	0.02	0.16	0.70	1.64	2.83	4.21	6.10	8.50	12.3	17.8	24.7	35.4	55.0	97.8	180	320	506	574
0	0.01	0.02	0.18	0.77	1.74	2.99	4.38	6.42	8.99	13.1	19.0	26.9	40.1	68.5	135	291	734	1675	2096
10	0.01	0.02	0.19	0.78	1.72	2.93	4.35	6.30	8.79	12.6	18.0	25.2	36.4	57.5	106	196	368	625	735
20	0.01	0.03	0.17	0.70	1.58	2.67	3.98	5.71	7.77	10.6	14.6	19.9	26.9	36.6	51.3	75.3	107	131	136
30	0.01	0.03	0.14	0.57	1.33	2.27	3.34	4.75	6.44	8.26	10.7	13.9	17.9	22.1	26.9	32.0	36.7	39.9	40.6
40	0.01	0.03	0.10	0.42	1.00	1.74	2.60	3.61	4.84	6.19	7.49	8.99	10.7	12.7	14.7	16.7	18.2	19.1	19.4
50	0.01	0.03	0.06	0.25	0.65	1.17	1.78	2.46	3.29	4.16	5.04	5.83	6.60	7.33	8.00	8.59	9.05	9.34	9.39
60	0.01	0.02	0.04	0.12	0.32	0.62	1.01	1.43	1.89	2.40	2.96	3.41	3.80	4.13	4.41	4.63	4.79	4.87	4.87
70	0.01	0.01	0.03	0.04	0.10	0.22	0.38	0.57	0.77	1.00	1.24	1.48	1.72	1.88	2.01	2.10	2.16	2.19	2.18
80	0.01	0.01	0.02	0.03	0.05	0.06	0.08	0.11	0.16	0.22	0.27	0.33	0.38	0.43	0.47	0.51	0.52	0.52	0.52
90	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07
100	0.01	0.02	0.02	0.02	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
110	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01
120	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
130	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.05
140	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.08	0.11	0.15	0.18	0.20	0.21
150	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.02	0.03	0.05	0.09	0.15	0.23	0.32	0.39	0.44	0.47	0.48
160	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.05	0.09	0.16	0.27	0.38	0.44	0.48	0.48	0.47	0.48
170	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.07	0.12	0.19	0.32	0.42	0.42	0.40	0.35	0.28	0.27
180	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.08	0.14	0.20	0.35	0.42	0.38	0.33	0.23	0.14	0.07

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NAME: TG-13M-25W-9									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: KLED									SUR.:					Shielding Angle:				

Table--2

UNIT: x10cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	0.07	0.08	0.09	0.09	0.09	0.09	0.08	0.06	0.04	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
-170	0.08	0.09	0.10	0.14	0.10	0.10	0.08	0.06	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
-160	0.11	0.11	0.12	0.12	0.11	0.11	0.08	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
-150	0.13	0.12	0.12	0.11	0.10	0.08	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
-140	0.10	0.09	0.08	0.07	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	
-130	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	
-120	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-110	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-100	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	0.00	
-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	0.00	
-80	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	0.00	
-70	0.62	0.59	0.52	0.43	0.33	0.25	0.18	0.12	0.07	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
-60	3.15	3.06	2.89	2.63	2.38	2.03	1.66	1.34	0.98	0.66	0.43	0.21	0.08	0.03	0.02	0.01	0.01	0.00	
-50	6.51	6.26	5.92	5.46	4.98	4.39	3.74	3.09	2.49	1.83	1.30	0.82	0.42	0.14	0.04	0.02	0.01	0.00	
-40	16.1	15.1	13.7	12.0	10.1	8.51	7.14	5.75	4.59	3.46	2.41	1.65	0.94	0.42	0.11	0.03	0.01	0.00	
-30	34.8	31.8	28.0	23.9	19.7	15.5	11.7	8.84	6.84	5.13	3.71	2.49	1.56	0.73	0.23	0.04	0.01	0.00	
-20	101	79.4	57.8	42.2	31.5	24.0	17.9	12.6	8.97	6.60	4.71	3.29	2.04	1.06	0.37	0.06	0.01	0.00	
-10	461	267	145	78.9	47.9	32.1	23.1	16.2	11.0	7.73	5.46	3.76	2.41	1.31	0.48	0.08	0.02	0.00	
0	1428	584	243	111	57.9	36.5	25.5	17.9	12.0	8.24	5.80	3.95	2.59	1.43	0.54	0.09	0.02	0.00	
10	538	303	157	83.7	48.2	32.4	23.1	16.4	11.4	7.92	5.61	3.83	2.51	1.40	0.54	0.10	0.02	0.00	
20	122	93.7	65.5	45.6	33.1	24.7	18.4	13.3	9.57	6.93	4.99	3.41	2.26	1.25	0.48	0.09	0.02	0.00	
30	39.0	35.3	30.6	25.7	21.0	16.5	12.8	9.81	7.54	5.67	4.09	2.85	1.86	1.01	0.37	0.07	0.02	0.00	
40	19.0	17.8	16.1	14.1	12.0	10.1	8.40	6.94	5.50	4.25	3.13	2.19	1.38	0.71	0.24	0.05	0.02	0.00	
50	9.25	8.92	8.41	7.79	7.07	6.27	5.46	4.60	3.71	2.84	2.08	1.44	0.86	0.42	0.13	0.03	0.01	0.00	
60	4.83	4.70	4.50	4.24	3.94	3.56	3.10	2.60	2.07	1.57	1.14	0.73	0.40	0.17	0.05	0.02	0.01	0.00	
70	2.16	2.10	2.01	1.89	1.73	1.53	1.27	1.00	0.76	0.57	0.38	0.23	0.12	0.05	0.03	0.02	0.01	0.00	
80	0.50	0.48	0.46	0.41	0.36	0.30	0.25	0.20	0.16	0.10	0.07	0.04	0.04	0.04	0.03	0.02	0.01	0.00	
90	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	
100	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	
110	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	
120	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	
130	0.05	0.05	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	
140	0.21	0.19	0.16	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	
150	0.47	0.45	0.41	0.35	0.27	0.18	0.11	0.06	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	
160	0.49	0.49	0.50	0.47	0.42	0.32	0.20	0.11	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
170	0.31	0.36	0.43	0.46	0.45	0.39	0.24	0.12	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
180	0.07	0.08	0.09	0.09	0.09	0.09	0.08	0.06	0.04	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2023-08-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.917m [K=1.0000]
Remarks: TG-13M-25W-9(3535 40K RA70 NE25L06)