

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		7936.4 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I <sub>max</sub> At 50% of I <sub>max</sub> At 90% of I <sub>max</sub>	33.0V x 33.2H 14.9V x 14.9H 5.5V x 5.7H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	1001.2 lumens per klm. 666.4 lumens per klm. 304.3 lumens per klm. 52.2 lumens per klm.
	Upward LOR Downward LOR	0.2 % 99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

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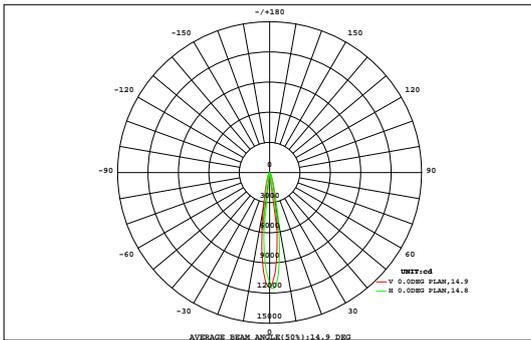
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-08-17

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-13S-15W-5(3535 40K RA70 NE25L06)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.25V I:0.0655A P:13.505W PF:0.9319 Freq:50.00Hz Lamp Flux:1454.99x1 lm		
NAME: TG-13S-15W-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:107.74lm/W	
MODEL 3535 40K RA70 NE25		I <sub>max</sub> (cd)	11547
NOMINAL POWER(W)	15	AVAILABILITY(%)	66.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	971.1
NOMINAL FLUX(lm)	1454.99	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1455
TEST VOLTAGE(V)	220	θ @50%(H,V)	15,15DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm	Φ t	Φ a	
	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.15	0.00
90	0.00	0.00	0.01	0.02	0.05	0.09	0.13	0.16	0.17	0.17	0.15	0.12	0.08	0.04	0.02	0.00	0.00	0.00	1.20	0.00
80	0.00	0.00	0.02	0.08	0.17	0.29	0.41	0.49	0.53	0.52	0.47	0.39	0.27	0.16	0.07	0.02	0.00	0.00	3.90	0.00
70	0.00	0.01	0.06	0.17	0.36	0.59	0.80	0.97	1.06	1.05	0.94	0.77	0.56	0.34	0.16	0.05	0.01	0.00	7.91	0.00
60	0.00	0.01	0.10	0.29	0.59	0.94	1.35	1.75	2.03	2.02	1.73	1.31	0.91	0.56	0.27	0.09	0.01	0.00	13.9	0.00
50	0.00	0.02	0.14	0.40	0.82	1.43	2.33	3.34	4.05	4.06	3.34	2.30	1.38	0.79	0.38	0.13	0.02	0.00	24.9	0.00
40	0.00	0.03	0.18	0.51	1.09	2.16	3.89	6.51	9.34	9.34	6.60	3.94	2.12	1.04	0.48	0.17	0.03	0.00	47.4	0.00
30	0.00	0.04	0.21	0.59	1.37	2.97	6.37	16.3	33.8	33.5	16.3	6.51	2.99	1.33	0.56	0.20	0.03	0.00	123	41.0
20	0.00	0.04	0.22	0.64	1.56	3.60	9.49	37.6	150	148	38.1	9.80	3.74	1.56	0.62	0.21	0.04	0.00	404	349
10	0.00	0.04	0.22	0.64	1.60	3.73	10.3	44.6	203	205	45.6	10.6	3.90	1.60	0.62	0.21	0.03	0.00	532	479
0	0.00	0.03	0.20	0.59	1.45	3.26	7.44	21.9	54.4	54.6	22.0	7.65	3.33	1.42	0.57	0.19	0.03	0.00	179	102
-10	0.00	0.02	0.17	0.50	1.15	2.44	4.60	8.36	13.0	13.0	8.53	4.72	2.45	1.12	0.48	0.16	0.02	0.00	60.8	0.00
-20	0.00	0.01	0.13	0.39	0.83	1.61	2.76	4.05	5.02	5.06	4.10	2.77	1.58	0.80	0.37	0.12	0.01	0.00	29.6	0.00
-30	0.00	0.01	0.07	0.26	0.55	0.94	1.45	1.96	2.29	2.28	1.93	1.41	0.91	0.52	0.24	0.06	0.01	0.00	14.9	0.00
-40	0.00	0.00	0.03	0.12	0.29	0.48	0.67	0.82	0.91	0.90	0.81	0.65	0.46	0.27	0.11	0.02	0.00	0.00	6.54	0.00
-50	0.00	0.00	0.01	0.03	0.09	0.18	0.26	0.32	0.35	0.35	0.32	0.25	0.16	0.08	0.02	0.00	0.00	0.00	2.43	0.00
-60	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.03	0.04	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.24	0.00
-70	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
-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	0.00	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	0.00	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.01	0.27	1.77	5.24	12.0	24.7	52.3	149	480	480	151	53.2	24.9	11.6	4.95	1.64	0.24	0.01	1452	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.0	419	418	68.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	971

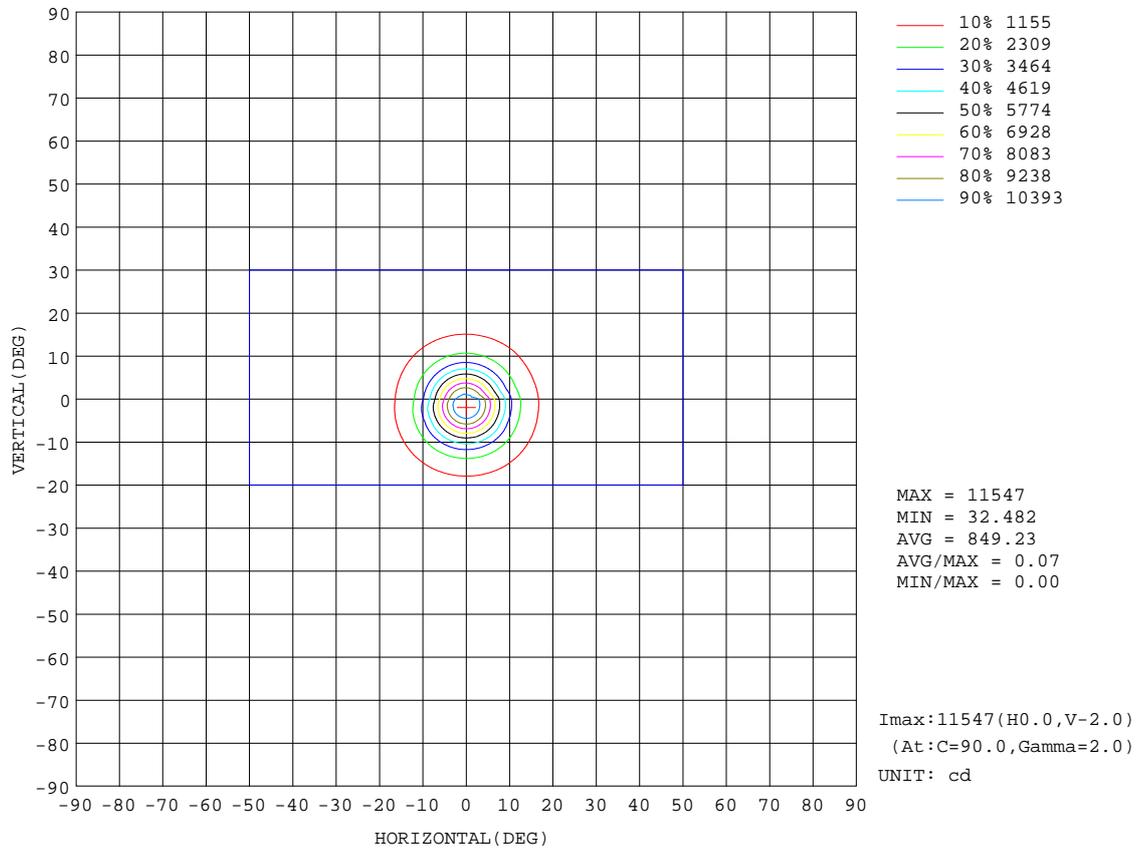
one-half-peak spread: U:7.1,D:7.9 , L:7.3,R:7.7 NEMA Beam Type: Type 3

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-08-17  
 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-13S-15W-5(3535 40K RA70 NE25L06)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:221.25V I:0.0655A P:13.505W PF:0.9319 Freq:50.00Hz Lamp Flux:1454.99x1 lm		
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SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



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 Test Date:2023-08-17

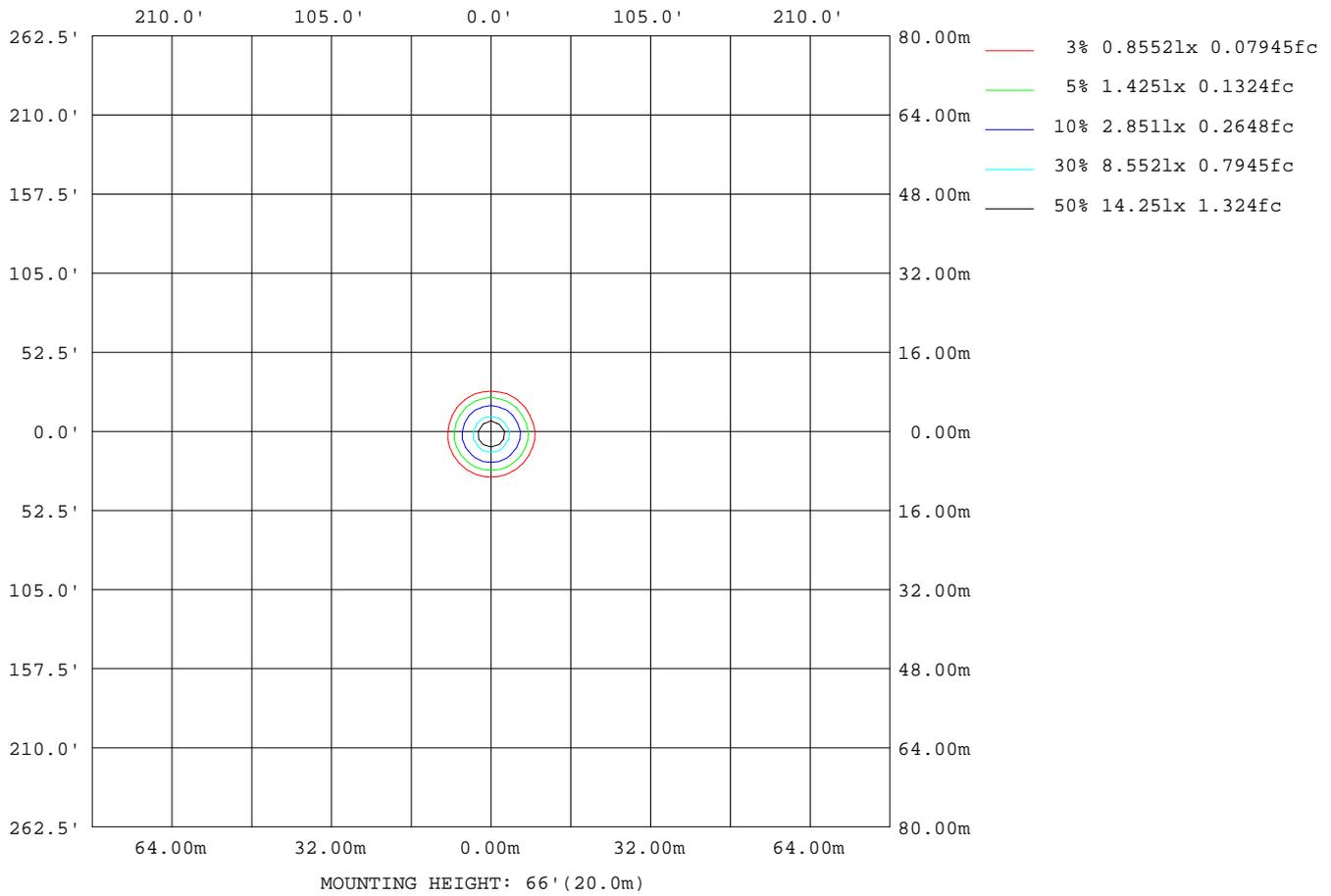
γ Range: 0 - 180DEG  
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 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
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 Remarks: TG-13S-15W-5(3535 40K RA70 NE25L06)

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

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**ISOLUX DIAGRAM**

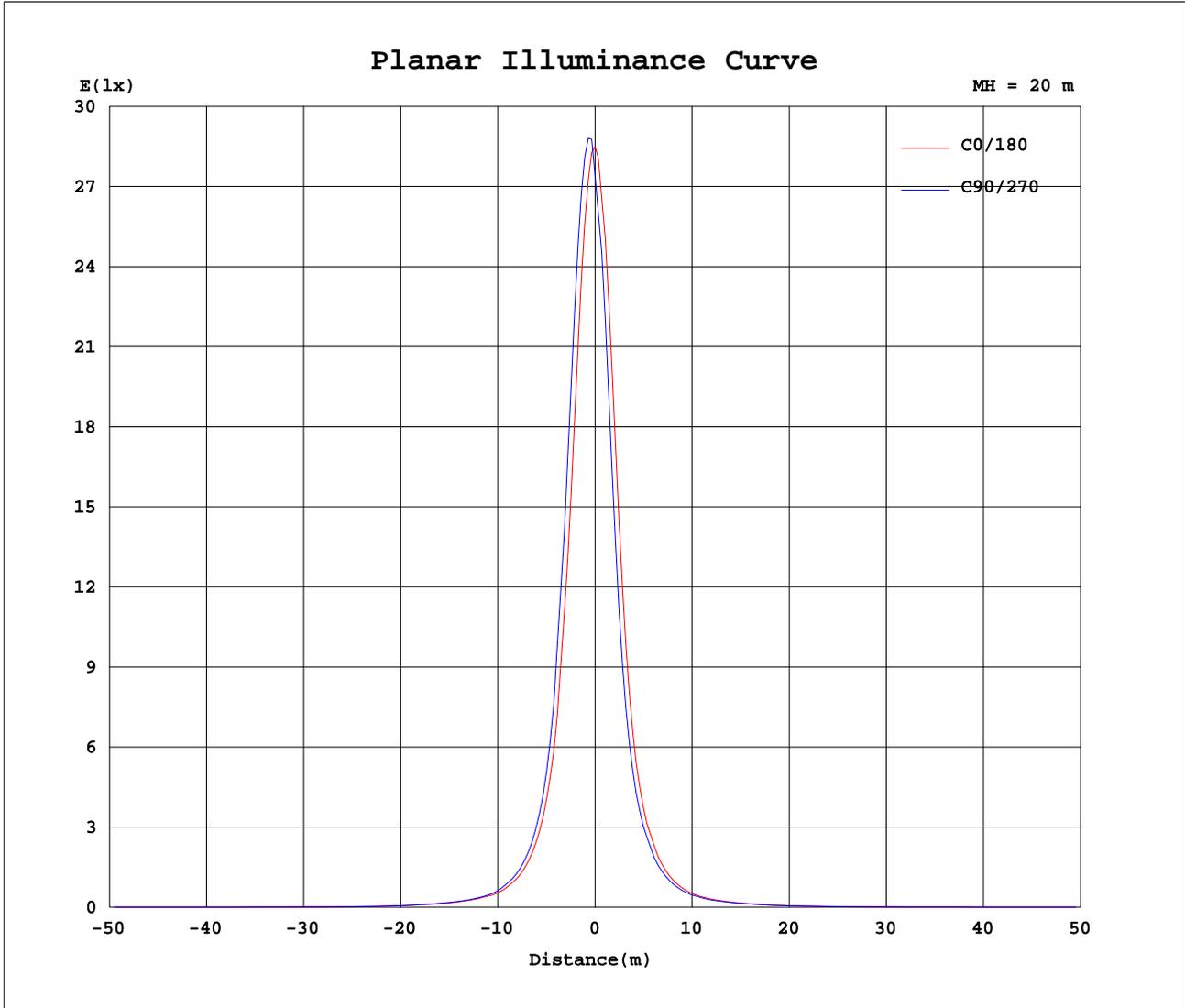
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NAME: TG-13S-15W-5	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



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 Temperature:13.9DEG  
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Planar Illuminance Curve



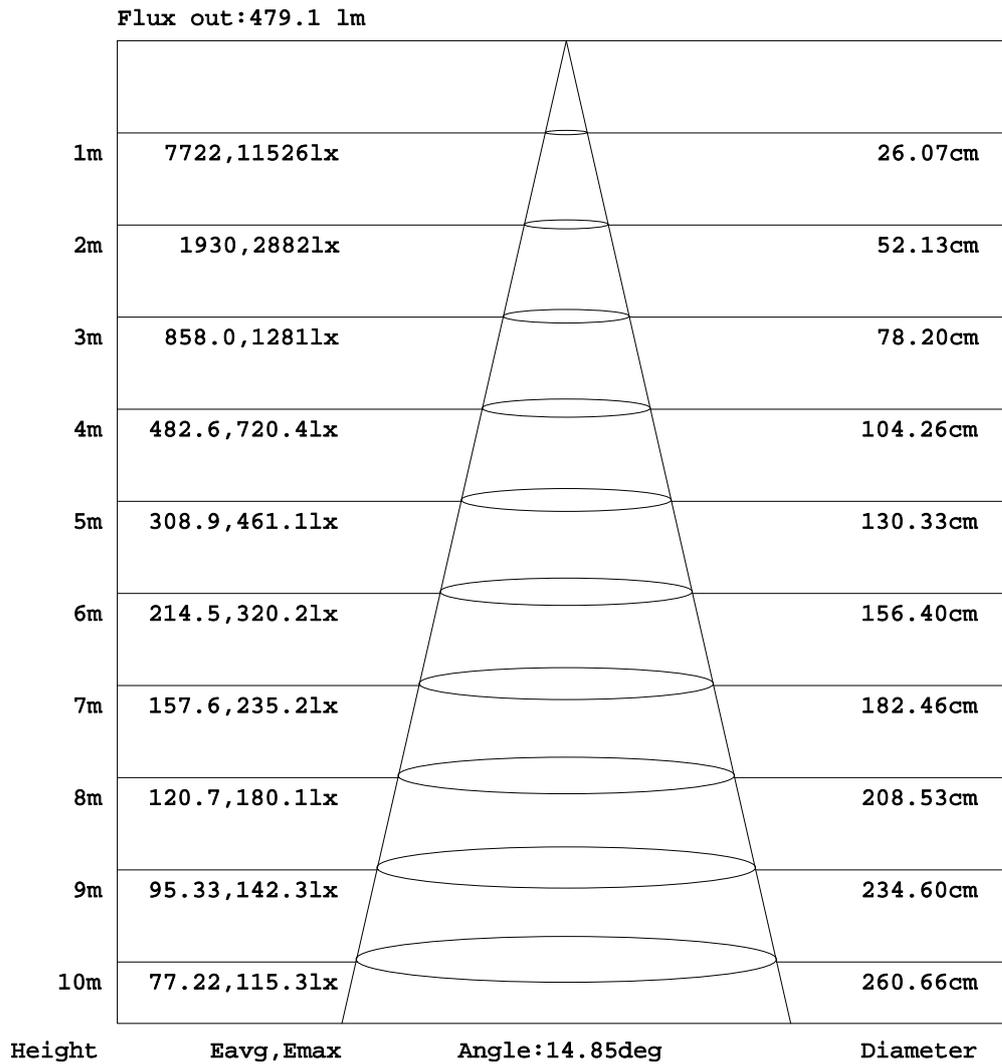
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AAI Figure

Test:U:221.25V I:0.0655A P:13.505W PF:0.9319 Freq:50.00Hz Lamp Flux:1454.99x1 lm		
NAME: TG-13S-15W-5	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  
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 Operators:CS01  
 Test Date:2023-08-17

γ Range: 0 - 180DEG  
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**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:221.25V I:0.0655A P:13.505W PF:0.9319 Freq:50.00Hz Lamp Flux:1454.99x1 lm		
NAME: TG-13S-15W-5	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	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.05	0.08	0.12	0.21	0.24	0.22	0.19	0.14	0.08	0.05
-170	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.05	0.04	0.05	0.05	0.05	0.05	0.05	0.05
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.06
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.05	0.06	0.06	0.07	0.07	0.07
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.04	0.04	0.04
-130	0.00	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	0.01	0.01
-120	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	0.01	0.01	0.01	0.01	0.01
-110	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	0.00
-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	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	0.00
-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	0.00
-70	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.04	0.09	0.14	0.17	0.23	0.32	0.40	0.46	0.51	0.54	0.55	0.54
-60	0.00	0.01	0.01	0.01	0.04	0.10	0.18	0.33	0.56	0.79	1.03	1.26	1.42	1.56	1.70	1.79	1.86	1.91	1.90
-50	0.00	0.01	0.01	0.04	0.13	0.33	0.67	1.07	1.49	1.91	2.30	2.74	3.12	3.43	3.80	4.06	4.25	4.46	4.47
-40	0.00	0.01	0.02	0.10	0.30	0.78	1.26	1.83	2.48	3.14	3.91	4.98	6.10	7.34	8.66	9.86	10.8	11.4	11.7
-30	0.00	0.01	0.03	0.16	0.59	1.17	1.75	2.53	3.37	4.49	6.04	7.92	10.3	12.8	15.7	18.6	21.7	23.8	24.7
-20	0.00	0.01	0.05	0.24	0.81	1.41	2.19	3.08	4.20	5.94	8.25	11.3	15.2	20.6	28.6	43.2	60.5	77.3	83.9
-10	0.00	0.01	0.07	0.32	0.94	1.58	2.44	3.44	4.90	7.01	10.0	14.0	19.8	30.7	55.4	105	206	386	497
0	0.00	0.01	0.07	0.36	0.99	1.65	2.51	3.57	5.07	7.25	10.4	14.6	21.2	34.5	66.3	139	338	816	1140
10	0.00	0.01	0.07	0.36	0.96	1.61	2.43	3.48	4.84	6.71	9.42	13.1	18.2	27.2	46.2	81.9	142	218	259
20	0.00	0.01	0.06	0.32	0.86	1.45	2.18	3.10	4.26	5.60	7.53	10.2	13.3	17.4	23.5	32.0	42.9	52.5	56.1
30	0.00	0.01	0.05	0.24	0.70	1.20	1.82	2.55	3.45	4.35	5.48	6.95	8.81	10.9	13.0	15.2	17.2	18.6	19.1
40	0.00	0.01	0.03	0.16	0.51	0.90	1.37	1.93	2.59	3.26	3.90	4.57	5.36	6.26	7.21	8.13	8.92	9.48	9.66
50	0.00	0.01	0.02	0.08	0.29	0.59	0.89	1.28	1.71	2.18	2.62	3.02	3.40	3.78	4.09	4.37	4.57	4.70	4.73
60	0.00	0.01	0.02	0.04	0.11	0.27	0.47	0.67	0.92	1.21	1.49	1.73	1.95	2.13	2.28	2.40	2.48	2.52	2.51
70	0.00	0.01	0.01	0.02	0.03	0.07	0.15	0.24	0.33	0.43	0.56	0.68	0.79	0.88	0.96	1.02	1.06	1.07	1.07
80	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.16	0.17	0.18	0.19	0.19
90	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03
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	0.00
110	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	0.00
120	0.00	0.00	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	0.01
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.03	0.04	0.04
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.04	0.06	0.09	0.11	0.13	0.14	0.15
150	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.06	0.10	0.16	0.20	0.24	0.26	0.27	0.27
160	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.03	0.06	0.10	0.17	0.23	0.25	0.27	0.26	0.24	0.24
170	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.04	0.07	0.12	0.19	0.24	0.23	0.22	0.18	0.14	0.12
180	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.03	0.05	0.08	0.12	0.21	0.24	0.22	0.19	0.14	0.08	0.04

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NAME: TG-13S-15W-5	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	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-170	0.05	0.05	0.06	0.06	0.06	0.06	0.05	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-160	0.06	0.06	0.07	0.07	0.07	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
-150	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-140	0.04	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	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	
-120	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	0.00	0.00	0.00	
-110	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	
-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	0.54	0.52	0.48	0.43	0.36	0.29	0.20	0.16	0.11	0.06	0.03	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
-60	1.89	1.83	1.74	1.65	1.51	1.37	1.19	0.95	0.70	0.48	0.26	0.16	0.08	0.03	0.01	0.01	0.01	0.00	
-50	4.43	4.21	3.98	3.68	3.32	3.02	2.65	2.21	1.78	1.37	0.96	0.57	0.26	0.12	0.03	0.01	0.01	0.00	
-40	11.4	10.8	9.84	8.59	7.22	5.92	4.78	3.77	3.01	2.37	1.69	1.16	0.67	0.25	0.09	0.02	0.01	0.00	
-30	24.1	22.3	19.1	16.0	13.0	10.4	7.86	5.86	4.32	3.22	2.40	1.63	1.07	0.51	0.15	0.03	0.01	0.00	
-20	77.2	60.6	43.7	29.4	21.3	15.6	11.5	8.21	5.77	4.03	2.95	2.07	1.32	0.73	0.22	0.05	0.01	0.00	
-10	390	209	106	55.7	31.6	20.8	14.4	10.2	6.91	4.76	3.31	2.33	1.50	0.88	0.30	0.06	0.01	0.00	
0	849	380	150	70.2	36.6	23.0	15.4	10.7	7.23	5.00	3.44	2.42	1.57	0.94	0.34	0.07	0.01	0.00	
10	215	140	81.8	46.3	27.8	18.7	13.3	9.45	6.55	4.67	3.31	2.32	1.52	0.90	0.33	0.07	0.01	0.00	
20	52.2	42.8	32.2	24.0	17.9	13.4	10.1	7.32	5.37	4.01	2.92	2.07	1.35	0.80	0.29	0.06	0.01	0.00	
30	18.7	17.3	15.4	13.1	11.0	8.70	6.74	5.25	4.17	3.25	2.41	1.70	1.11	0.64	0.21	0.04	0.01	0.00	
40	9.46	8.88	8.05	7.05	6.09	5.18	4.40	3.73	3.10	2.46	1.82	1.27	0.82	0.45	0.14	0.03	0.01	0.00	
50	4.66	4.49	4.27	3.97	3.63	3.28	2.89	2.50	2.06	1.61	1.19	0.82	0.52	0.24	0.07	0.02	0.01	0.00	
60	2.48	2.42	2.32	2.19	2.03	1.85	1.64	1.41	1.13	0.85	0.61	0.42	0.23	0.09	0.03	0.01	0.01	0.00	
70	1.06	1.03	0.98	0.92	0.84	0.74	0.63	0.51	0.39	0.30	0.21	0.12	0.06	0.03	0.02	0.01	0.01	0.00	
80	0.18	0.18	0.17	0.16	0.14	0.12	0.10	0.08	0.06	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.00	0.00	
90	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	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	
110	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	
120	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	
130	0.04	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
140	0.14	0.13	0.11	0.09	0.06	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150	0.27	0.26	0.24	0.20	0.16	0.11	0.06	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
160	0.24	0.25	0.26	0.25	0.23	0.18	0.11	0.06	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
170	0.14	0.17	0.21	0.24	0.24	0.20	0.12	0.06	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
180	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-08-17

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-13S-15W-5(3535 40K RA70 NE25L06)