Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P487261

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4LO-27-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By E9911574 / USPTCWHP6081592

Test Information

Test Method:	LM-79-08
Report Number:	P487261
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab:	INNOVATION CENTER
Issue Date:	3/1/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	FAIL-SAFE
Catalog Number:	ORLG-24-4-INS-A125-LD4-4LO-27-120-EDD
Description:	2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source:	-
Ballast/Driver:	-

Luminaire Equipment:	Sample No.	Condition	Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11105.3 lumens
Efficiency:	N/A
Efficacy:	118.6 lumens/watt
Spacing Criteria (0/90/45):	1.17 / 1.21 / 1.32
Luminous Opening:	Rectangular (W 2' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	93.6
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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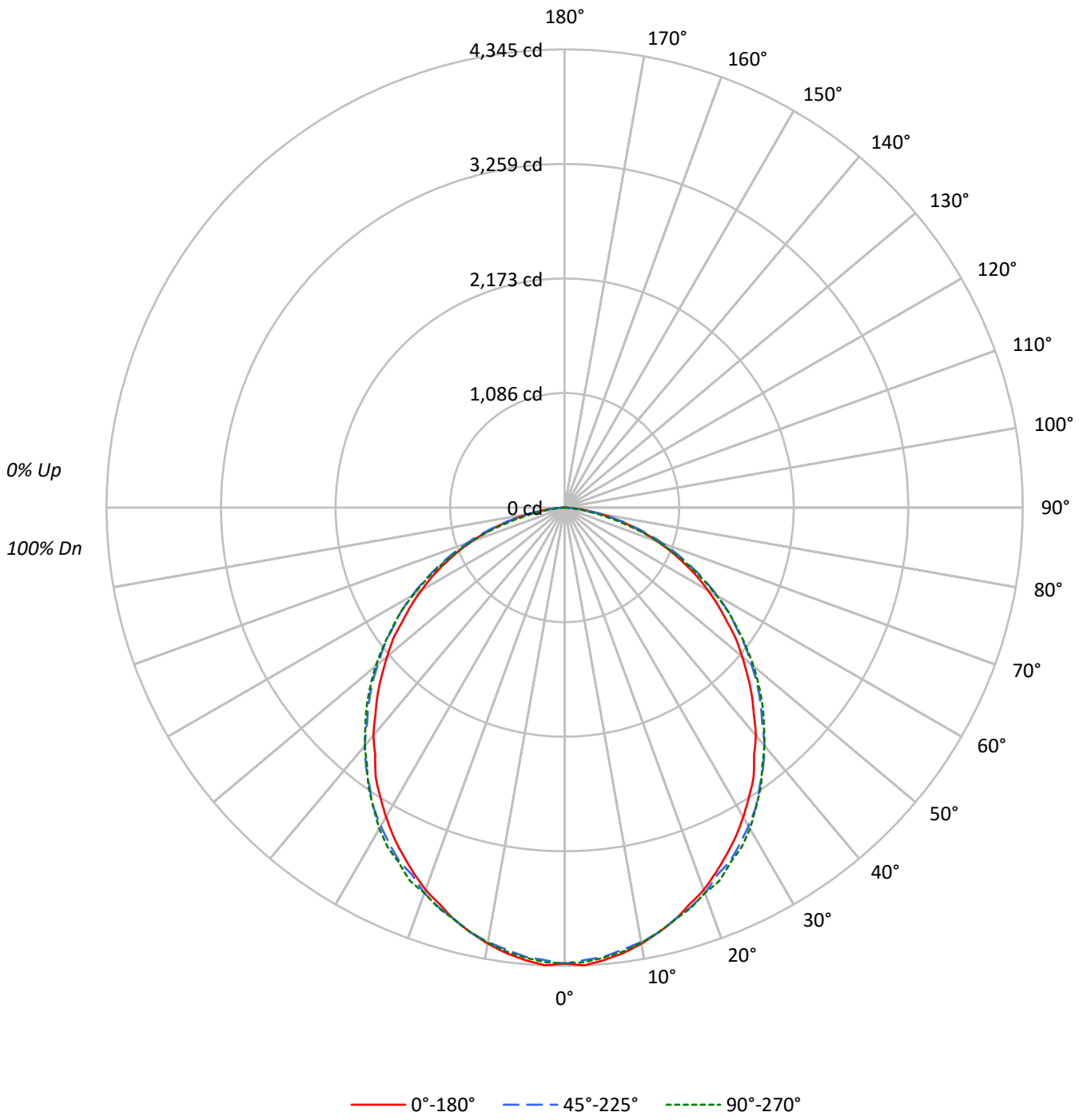
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5817	5817	5817
5°	5817	5776	5785
10°	5736	5717	5723
15°	5637	5631	5634
20°	5524	5571	5568
25°	5394	5499	5517
30°	5263	5417	5461
35°	5133	5300	5323
40°	4957	5182	5178
45°	4777	5002	5051
50°	4597	4834	4899
55°	4403	4663	4691
60°	4218	4497	4465
65°	3996	4222	4139
70°	3683	3878	3701
75°	3256	3392	2962
80°	2619	2656	2070
85°	1715	1643	1204

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	3.7
10°-20°	1142.7	10.3
20°-30°	1701.3	15.3
30°-40°	2002.5	18.0
40°-50°	2007.8	18.1
50°-60°	1760.6	15.9
60°-70°	1287.4	11.6
70°-80°	663.5	6.0
80°-90°	133.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3250.4	29.3
0°-40°	5252.9	47.3
0°-60°	9021.3	81.2
0°-90°	11105.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11105.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4324	4324	4324	4324	4324	
5°	4307	4279	4276	4305	4283	408
15°	4047	4054	4042	4068	4045	1139
25°	3633	3650	3704	3756	3716	1674
35°	3125	3139	3227	3262	3241	1946
45°	2510	2522	2629	2662	2655	1935
55°	1877	1920	1988	2016	2000	1685
65°	1255	1284	1326	1321	1300	1242
75°	626	631	652	608	570	664
85°	111	109	106	85	78	145
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*4323.5*	4323.5	4323.5	4323.5	4323.5
2.5°	*4344.8*	*4323.5*	*4295.2*	*4318.8*	*4314.1*
5°	*4307.0*	4278.6	4276.3	4304.6	4283.4
7.5°	*4259.7*	4255.0	4226.6	4257.4	4245.5
10°	*4198.3*	4193.5	4184.1	4205.3	4188.8
12.5°	*4125.0*	4120.2	4125.0	4136.8	4125.0
15°	*4047.0*	4054.1	4042.2	4068.2	4044.6
17.5°	*3943.0*	3950.0	3973.7	3983.1	3980.8
20°	*3857.9*	3862.6	3891.0	3928.8	3888.6
22.5°	*3746.8*	3758.6	3772.8	3841.3	3831.9
25°	*3633.3*	3649.8	3704.2	3756.2	3716.0
27.5°	*3515.1*	3531.6	3597.8	3635.7	3630.9
30°	*3387.4*	3404.0	3486.7	3538.7	3515.1
32.5°	*3255.1*	3283.4	3373.3	3418.2	3373.3
35°	*3125.1*	3139.2	3226.7	3262.2	3240.9
37.5°	*2952.5*	3006.9	3094.3	3118.0	3080.1
40°	*2822.5*	2824.8	2950.1	2950.1	2947.8
42.5°	*2654.6*	2692.5	2775.2	2820.1	2796.5
45°	*2510.4*	2522.3	2628.6	2661.7	2654.6
47.5°	*2352.1*	2399.3	2477.3	2515.2	2496.3
50°	*2196.0*	2229.1	2309.5	2359.2	2340.2
52.5°	*2051.9*	2077.9	2160.6	2189.0	2170.0
55°	*1876.9*	1919.5	1988.0	2016.4	1999.8
57.5°	*1725.6*	1756.4	1841.5	1850.9	1841.5
60°	*1567.3*	1602.7	1671.3	1678.4	1659.4
62.5°	*1416.0*	1439.6	1501.1	1503.4	1482.2
65°	*1255.2*	1283.6	1326.1	1321.4	1300.1
67.5°	*1096.8*	1115.8	1155.9	1139.4	1115.8
70°	*936.1*	952.6	985.7	962.1	940.8
72.5°	*780.1*	791.9	820.3	784.8	758.8
75°	*626.4*	631.2	652.4	607.5	569.7
77.5°	*475.1*	479.9	491.7	446.8	404.2
80°	*338.0*	338.0	342.8	295.5	267.1
82.5°	*212.7*	212.7	210.4	174.9	158.4
85°	*111.1*	108.7	106.4	85.1	78.0
87.5°	*40.2*	40.2	33.1	30.7	33.1
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)