

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: P487333

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-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.



Test Information

Test Method: LM-79-08
Report Number: P487333
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-LD4-6LO-27-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

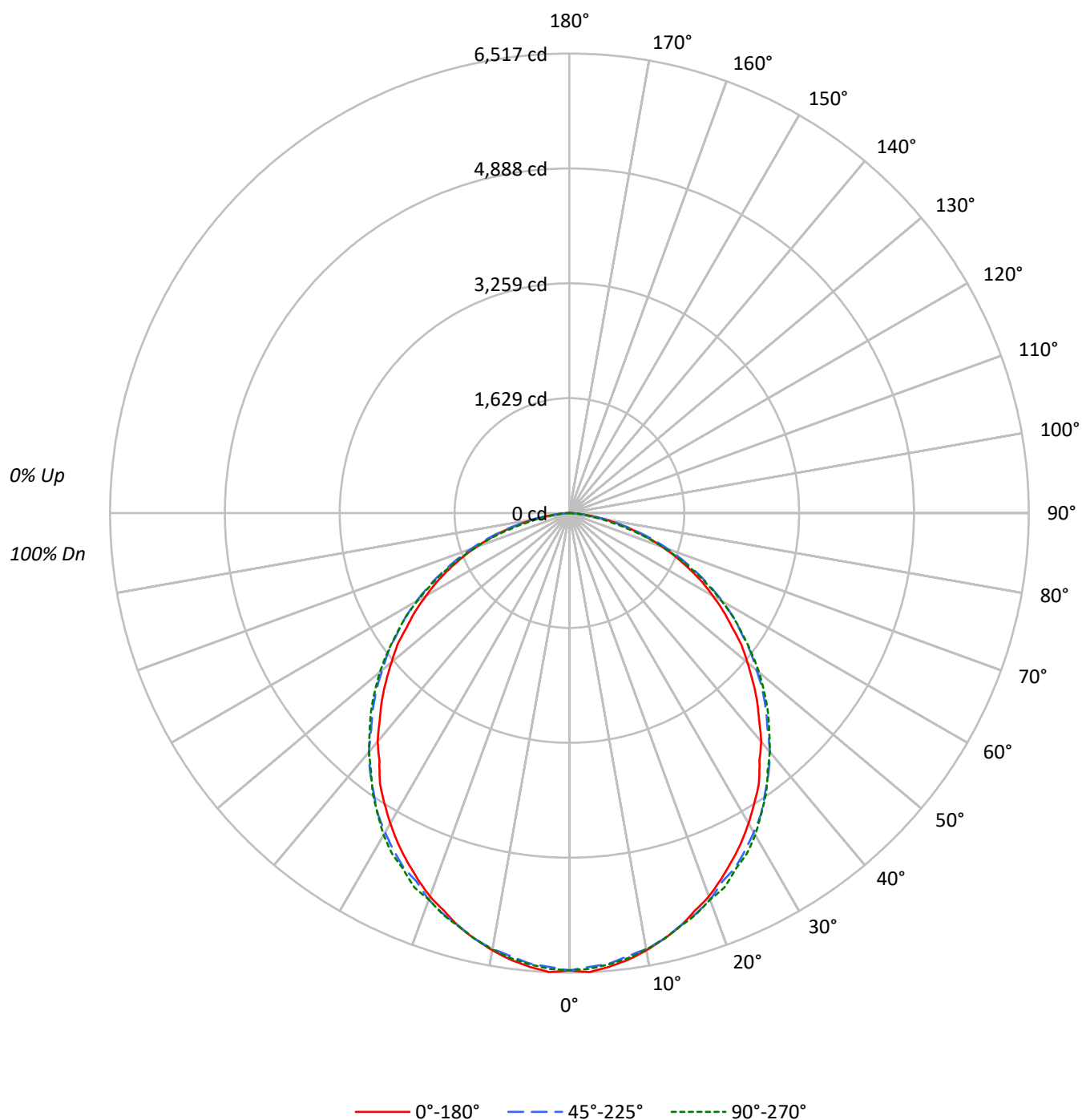
Lumens per Lamp: N/A
Luminaire Lumens: 16658.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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				
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°	8726	8726	8726
5°	8726	8663	8678
10°	8604	8575	8584
15°	8456	8446	8451
20°	8286	8357	8352
25°	8091	8249	8275
30°	7894	8126	8192
35°	7700	7950	7985
40°	7436	7772	7766
45°	7165	7503	7577
50°	6895	7252	7348
55°	6604	6995	7037
60°	6326	6746	6698
65°	5994	6333	6209
70°	5524	5817	5552
75°	4885	5088	4442
80°	3929	3983	3105
85°	2573	2464	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.6	3.7
10°-20°	1714.1	10.3
20°-30°	2551.9	15.3
30°-40°	3003.8	18.0
40°-50°	3011.7	18.1
50°-60°	2641.0	15.9
60°-70°	1931.1	11.6
70°-80°	995.2	6.0
80°-90°	199.7	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°	4875.6	29.3
0°-40°	7879.3	47.3
0°-60°	13532.0	81.2
0°-90°	16658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6485	6485	6485	6485	6485	
5°	6460	6418	6414	6457	6425	612
15°	6070	6081	6063	6102	6067	1708
25°	5450	5475	5556	5634	5574	2510
35°	4688	4709	4840	4893	4861	2919
45°	3766	3783	3943	3993	3982	2902
55°	2815	2879	2982	3025	3000	2527
65°	1883	1925	1989	1982	1950	1863
75°	940	947	979	911	854	996
85°	167	163	160	128	117	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6485.3	6485.3	6485.3	6485.3	6485.3
2.5°	6517.2	6485.3	6442.8	6478.2	6471.1
5°	6460.5	6418.0	6414.4	6457.0	6425.1
7.5°	6389.6	6382.5	6340.0	6386.0	6368.3
10°	6297.4	6290.3	6276.1	6308.0	6283.2
12.5°	6187.5	6180.4	6187.5	6205.2	6187.5
15°	6070.5	6081.1	6063.4	6102.4	6066.9
17.5°	5914.5	5925.1	5960.5	5974.7	5971.2
20°	5786.8	5793.9	5836.4	5893.2	5832.9
22.5°	5620.1	5637.9	5659.2	5762.0	5747.8
25°	5449.9	5474.8	5556.3	5634.3	5574.1
27.5°	5272.7	5297.5	5396.8	5453.5	5446.4
30°	5081.2	5106.0	5230.1	5308.1	5272.7
32.5°	4882.6	4925.2	5059.9	5127.3	5059.9
35°	4687.6	4708.9	4840.1	4893.3	4861.3
37.5°	4428.7	4510.3	4641.5	4677.0	4620.2
40°	4233.7	4237.3	4425.2	4425.2	4421.7
42.5°	3982.0	4038.7	4162.8	4230.2	4194.7
45°	3765.7	3783.4	3943.0	3992.6	3982.0
47.5°	3528.1	3599.0	3716.0	3772.8	3744.4
50°	3294.1	3343.7	3464.3	3538.7	3510.4
52.5°	3077.8	3116.8	3240.9	3283.4	3255.1
55°	2815.4	2879.2	2982.0	3024.6	2999.8
57.5°	2588.5	2634.6	2762.2	2776.4	2762.2
60°	2350.9	2404.1	2506.9	2517.5	2489.2
62.5°	2124.0	2159.4	2251.6	2255.2	2223.2
65°	1882.8	1925.4	1989.2	1982.1	1950.2
67.5°	1645.3	1673.6	1733.9	1709.1	1673.6
70°	1404.2	1429.0	1478.6	1443.2	1411.2
72.5°	1170.1	1187.9	1230.4	1177.2	1138.2
75°	939.6	946.7	978.7	911.3	854.5
77.5°	712.7	719.8	737.5	670.2	606.3
80°	507.1	507.1	514.1	443.2	400.7
82.5°	319.1	319.1	315.6	262.4	237.6
85°	166.7	163.1	159.6	127.7	117.0
87.5°	60.3	60.3	49.6	46.1	49.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)