

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: P487336

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6LO-35-120-EDD-90**

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: P487336
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-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

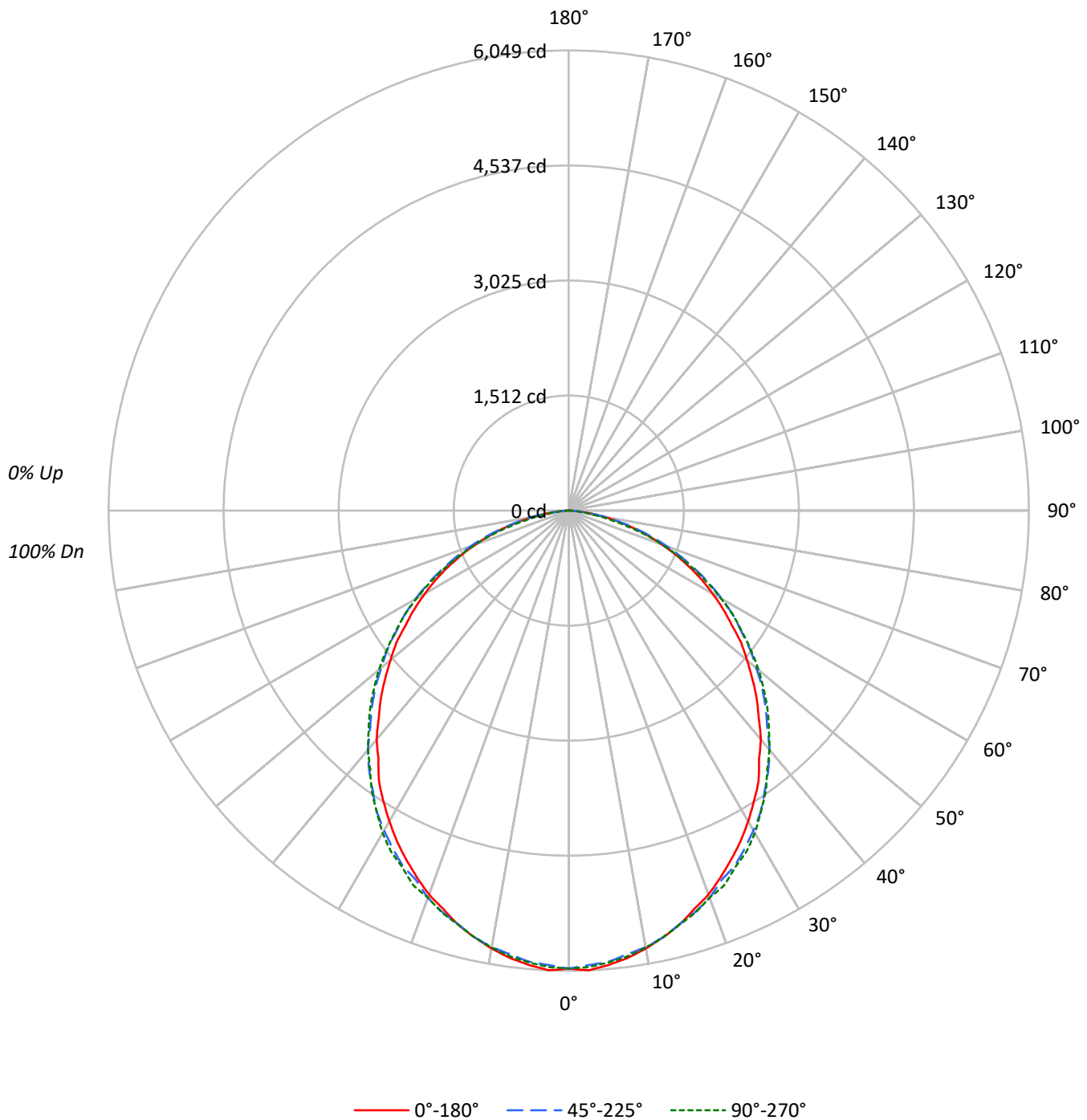
Lumens per Lamp: N/A
Luminaire Lumens: 15461.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8099	8099	8099
5°	8099	8041	8054
10°	7986	7959	7968
15°	7848	7839	7844
20°	7691	7757	7752
25°	7510	7656	7681
30°	7327	7542	7603
35°	7147	7379	7411
40°	6902	7214	7208
45°	6651	6964	7033
50°	6400	6731	6820
55°	6130	6493	6531
60°	5872	6261	6217
65°	5564	5878	5763
70°	5127	5399	5153
75°	4534	4722	4124
80°	3646	3698	2882
85°	2388	2286	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.8	3.7
10°-20°	1590.9	10.3
20°-30°	2368.6	15.3
30°-40°	2788.0	18.0
40°-50°	2795.3	18.1
50°-60°	2451.3	15.9
60°-70°	1792.4	11.6
70°-80°	923.7	6.0
80°-90°	185.3	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°	4525.3	29.3
0°-40°	7313.3	47.3
0°-60°	12559.9	81.2
0°-90°	15461.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15461.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6020	6020	6020	6020	6020	
5°	5996	5957	5954	5993	5964	568
15°	5634	5644	5628	5664	5631	1586
25°	5058	5082	5157	5230	5174	2330
35°	4351	4371	4492	4542	4512	2710
45°	3495	3512	3660	3706	3696	2694
55°	2613	2672	2768	2807	2784	2346
65°	1748	1787	1846	1840	1810	1729
75°	872	879	908	846	793	924
85°	155	151	148	118	109	202
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6019.5	6019.5	6019.5	6019.5	6019.5
2.5°	6049.1	6019.5	5980.0	6012.9	6006.3
5°	5996.4	5956.9	5953.6	5993.1	5963.5
7.5°	5930.6	5924.0	5884.5	5927.3	5910.9
10°	5845.0	5838.5	5825.3	5854.9	5831.9
12.5°	5743.0	5736.4	5743.0	5759.5	5743.0
15°	5634.4	5644.3	5627.8	5664.0	5631.1
17.5°	5489.6	5499.5	5532.4	5545.5	5542.3
20°	5371.1	5377.7	5417.2	5469.9	5413.9
22.5°	5216.4	5232.9	5252.6	5348.1	5334.9
25°	5058.5	5081.5	5157.2	5229.6	5173.7
27.5°	4893.9	4916.9	5009.1	5061.8	5055.2
30°	4716.2	4739.2	4854.4	4926.8	4893.9
32.5°	4531.9	4571.4	4696.4	4759.0	4696.4
35°	4350.9	4370.6	4492.4	4541.8	4512.1
37.5°	4110.6	4186.3	4308.1	4341.0	4288.3
40°	3929.6	3932.9	4107.3	4107.3	4104.0
42.5°	3695.9	3748.6	3863.8	3926.3	3893.4
45°	3495.2	3511.6	3659.7	3705.8	3695.9
47.5°	3274.7	3340.5	3449.1	3501.8	3475.4
50°	3057.5	3103.5	3215.4	3284.5	3258.2
52.5°	2856.7	2892.9	3008.1	3047.6	3021.3
55°	2613.2	2672.4	2767.8	2807.3	2784.3
57.5°	2402.5	2445.3	2563.8	2577.0	2563.8
60°	2182.0	2231.4	2326.8	2336.7	2310.4
62.5°	1971.4	2004.3	2089.9	2093.2	2063.5
65°	1747.6	1787.1	1846.3	1839.7	1810.1
67.5°	1527.1	1553.4	1609.4	1586.3	1553.4
70°	1303.3	1326.3	1372.4	1339.5	1309.9
72.5°	1086.1	1102.5	1142.0	1092.7	1056.5
75°	872.1	878.7	908.4	845.8	793.2
77.5°	661.5	668.1	684.6	622.0	562.8
80°	470.6	470.6	477.2	411.4	371.9
82.5°	296.2	296.2	292.9	243.5	220.5
85°	154.7	151.4	148.1	118.5	108.6
87.5°	55.9	55.9	46.1	42.8	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)