

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: P487289

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5HI-35-120-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: P487289
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-LD4-5HI-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

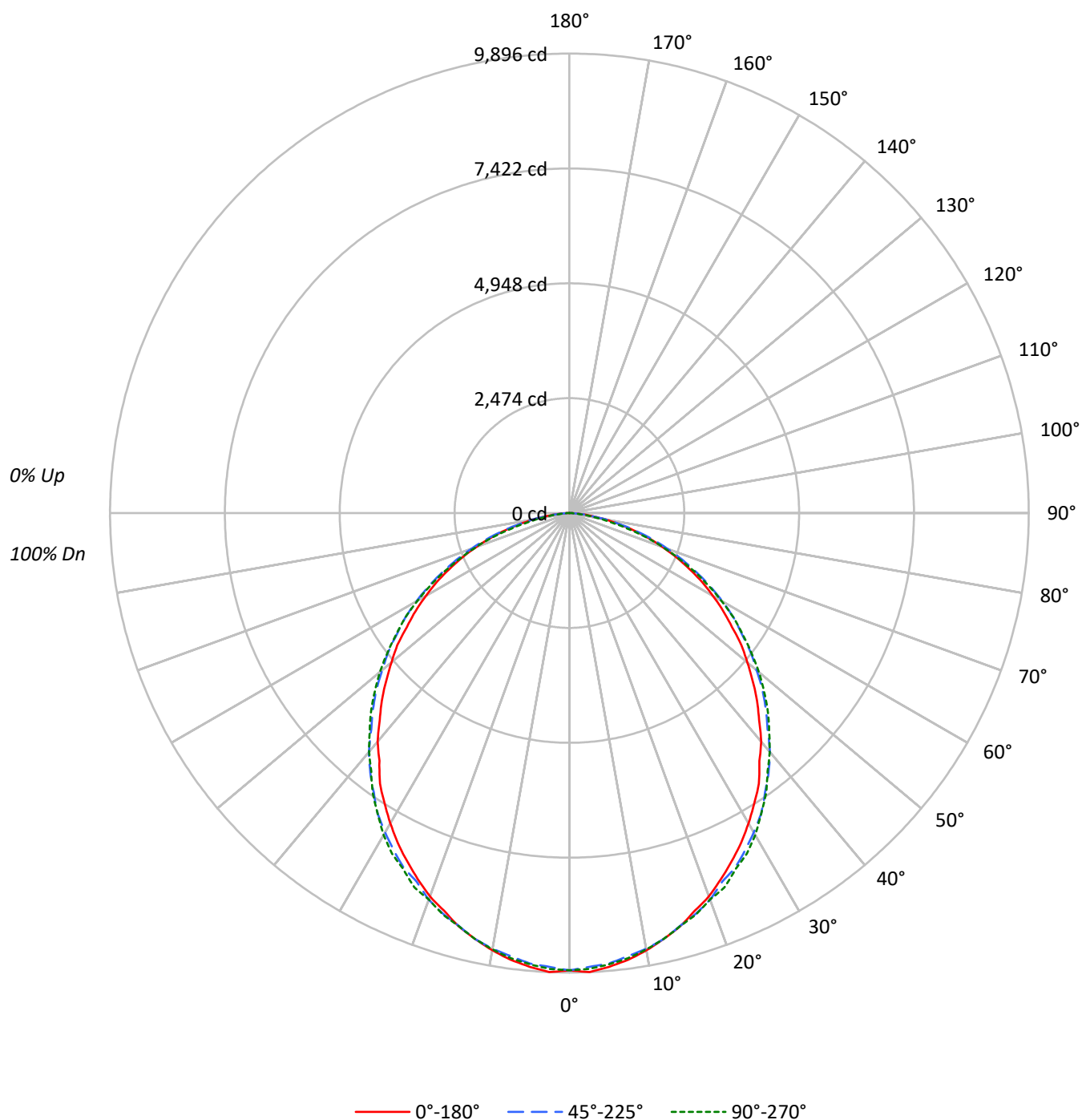
Lumens per Lamp: N/A
Luminaire Lumens: 25293.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13249	13249	13249
5°	13249	13154	13176
10°	13064	13020	13034
15°	12839	12824	12832
20°	12581	12689	12681
25°	12285	12525	12565
30°	11986	12338	12438
35°	11691	12071	12124
40°	11291	11802	11792
45°	10880	11392	11505
50°	10469	11010	11157
55°	10028	10621	10685
60°	9605	10243	10171
65°	9102	9616	9427
70°	8387	8832	8430
75°	7417	7725	6745
80°	5965	6049	4714
85°	3906	3741	2743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.6	3.7
10°-20°	2602.6	10.3
20°-30°	3874.8	15.3
30°-40°	4560.8	18.0
40°-50°	4572.8	18.1
50°-60°	4009.9	15.9
60°-70°	2932.2	11.6
70°-80°	1511.1	6.0
80°-90°	303.2	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°	7402.9	29.3
0°-40°	11963.7	47.3
0°-60°	20546.5	81.2
0°-90°	25293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9847	9847	9847	9847	9847	
5°	9809	9745	9740	9804	9756	928
15°	9217	9233	9206	9266	9212	2594
25°	8275	8313	8437	8555	8464	3812
35°	7118	7150	7349	7430	7381	4433
45°	5718	5745	5987	6062	6046	4406
55°	4275	4372	4528	4592	4555	3837
65°	2859	2924	3020	3010	2961	2828
75°	1427	1438	1486	1384	1298	1512
85°	253	248	242	194	178	330
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9847.1	9847.1	9847.1	9847.1	9847.1
2.5°	9895.6	9847.1	9782.5	9836.4	9825.6
5°	9809.4	9744.8	9739.5	9804.1	9755.6
7.5°	9701.8	9691.0	9626.4	9696.4	9669.5
10°	9561.8	9551.0	9529.5	9577.9	9540.3
12.5°	9394.9	9384.1	9394.9	9421.8	9394.9
15°	9217.2	9233.4	9206.4	9265.7	9211.8
17.5°	8980.3	8996.5	9050.3	9071.9	9066.5
20°	8786.5	8797.3	8861.9	8948.0	8856.5
22.5°	8533.5	8560.4	8592.7	8748.8	8727.3
25°	8275.0	8312.7	8436.6	8555.0	8463.5
27.5°	8005.8	8043.5	8194.3	8280.4	8269.7
30°	7715.1	7752.8	7941.2	8059.7	8005.8
32.5°	7413.6	7478.2	7682.8	7785.1	7682.8
35°	7117.5	7149.8	7349.0	7429.8	7381.3
37.5°	6724.5	6848.3	7047.5	7101.3	7015.2
40°	6428.4	6433.7	6719.1	6719.1	6713.7
42.5°	6046.1	6132.2	6320.7	6423.0	6369.1
45°	5717.7	5744.6	5986.9	6062.3	6046.1
47.5°	5357.0	5464.6	5642.3	5728.5	5685.4
50°	5001.6	5077.0	5260.1	5373.1	5330.0
52.5°	4673.2	4732.4	4920.9	4985.5	4942.4
55°	4274.8	4371.7	4527.9	4592.5	4554.8
57.5°	3930.2	4000.2	4194.0	4215.6	4194.0
60°	3569.5	3650.3	3806.4	3822.6	3779.5
62.5°	3224.9	3278.8	3418.8	3424.2	3375.7
65°	2858.8	2923.5	3020.4	3009.6	2961.1
67.5°	2498.1	2541.2	2632.7	2595.0	2541.2
70°	2132.0	2169.7	2245.1	2191.2	2142.8
72.5°	1776.7	1803.6	1868.2	1787.5	1728.2
75°	1426.7	1437.5	1486.0	1383.7	1297.5
77.5°	1082.2	1092.9	1119.8	1017.6	920.6
80°	769.9	769.9	780.7	673.0	608.4
82.5°	484.5	484.5	479.2	398.4	360.7
85°	253.0	247.7	242.3	193.8	177.7
87.5°	91.5	91.5	75.4	70.0	75.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)