

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: P487313

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-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: P487313
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-LD4-5STD-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

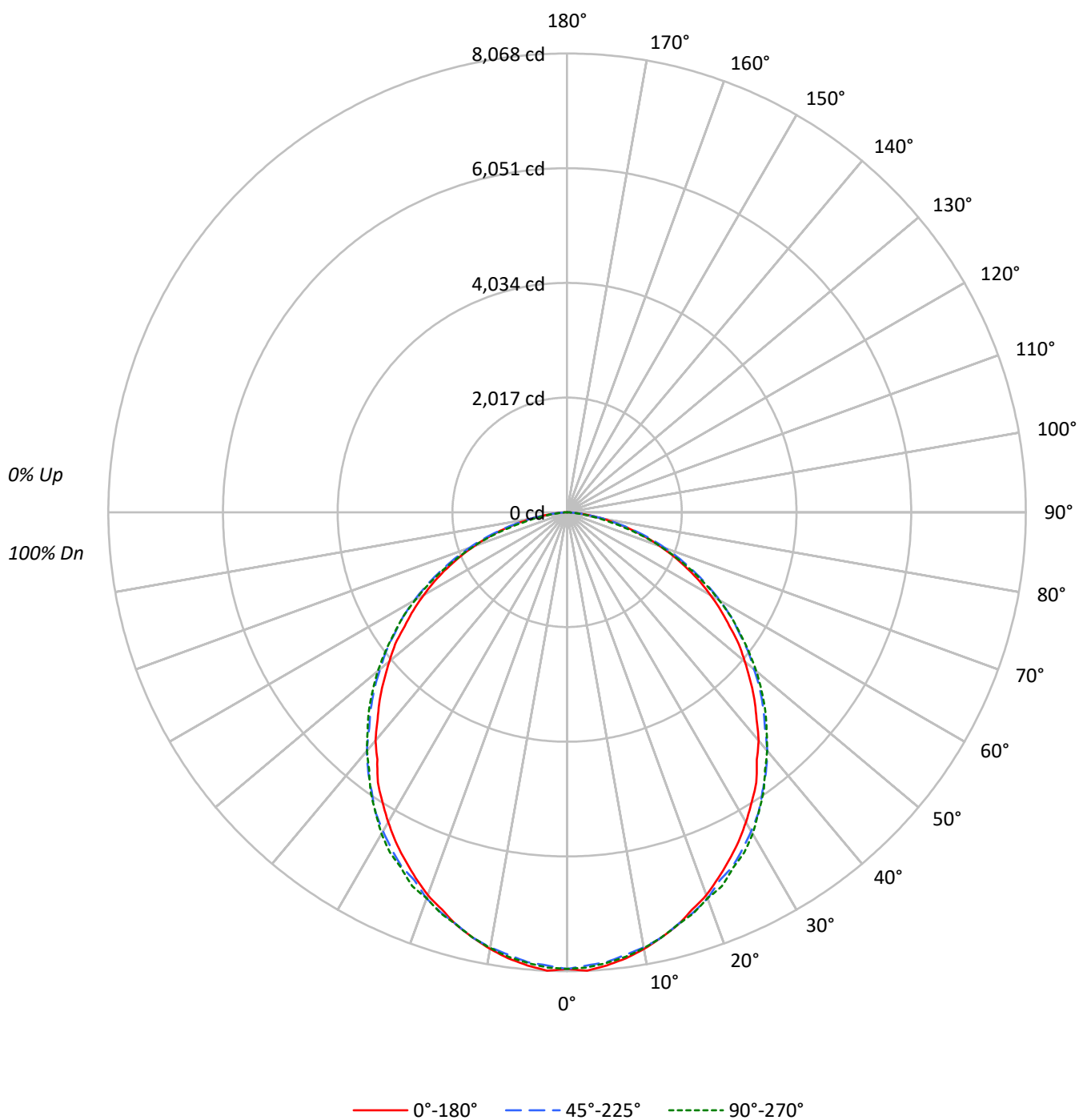
Lumens per Lamp: N/A
Luminaire Lumens: 20620.8 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10802	10802	10802
5°	10802	10725	10742
10°	10651	10615	10627
15°	10467	10455	10461
20°	10257	10345	10339
25°	10016	10211	10244
30°	9772	10059	10141
35°	9531	9841	9884
40°	9205	9621	9614
45°	8870	9288	9380
50°	8535	8977	9096
55°	8176	8659	8711
60°	7831	8351	8292
65°	7421	7840	7686
70°	6838	7201	6873
75°	6047	6298	5499
80°	4864	4932	3843
85°	3185	3049	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.6	3.7
10°-20°	2121.8	10.3
20°-30°	3159.0	15.3
30°-40°	3718.3	18.0
40°-50°	3728.1	18.1
50°-60°	3269.2	15.9
60°-70°	2390.5	11.6
70°-80°	1232.0	6.0
80°-90°	247.2	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°	6035.4	29.3
0°-40°	9753.8	47.3
0°-60°	16751.1	81.2
0°-90°	20620.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20620.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8028	8028	8028	8028	8028	
5°	7997	7945	7940	7993	7954	757
15°	7515	7528	7506	7554	7510	2115
25°	6746	6777	6878	6975	6900	3108
35°	5803	5829	5992	6057	6018	3614
45°	4662	4683	4881	4942	4929	3592
55°	3485	3564	3692	3744	3713	3128
65°	2331	2383	2462	2454	2414	2306
75°	1163	1172	1212	1128	1058	1233
85°	206	202	198	158	145	269
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8028.1	8028.1	8028.1	8028.1	8028.1
2.5°	8067.6	8028.1	7975.5	8019.4	8010.6
5°	7997.4	7944.7	7940.4	7993.0	7953.5
7.5°	7909.6	7900.8	7848.2	7905.2	7883.3
10°	7795.5	7786.7	7769.2	7808.7	7777.9
12.5°	7659.4	7650.7	7659.4	7681.4	7659.4
15°	7514.6	7527.8	7505.8	7554.1	7510.2
17.5°	7321.5	7334.6	7378.5	7396.1	7391.7
20°	7163.4	7172.2	7224.9	7295.1	7220.5
22.5°	6957.1	6979.1	7005.4	7132.7	7115.2
25°	6746.4	6777.2	6878.1	6974.7	6900.1
27.5°	6527.0	6557.7	6680.6	6750.8	6742.1
30°	6290.0	6320.7	6474.3	6570.9	6527.0
32.5°	6044.1	6096.8	6263.6	6347.0	6263.6
35°	5802.7	5829.1	5991.5	6057.3	6017.8
37.5°	5482.3	5583.3	5745.7	5789.6	5719.3
40°	5240.9	5245.3	5477.9	5477.9	5473.5
42.5°	4929.3	4999.5	5153.1	5236.5	5192.6
45°	4661.5	4683.4	4881.0	4942.4	4929.3
47.5°	4367.4	4455.2	4600.0	4670.3	4635.2
50°	4077.7	4139.2	4288.4	4380.6	4345.5
52.5°	3810.0	3858.2	4011.9	4064.5	4029.4
55°	3485.2	3564.2	3691.5	3744.1	3713.4
57.5°	3204.2	3261.3	3419.3	3436.9	3419.3
60°	2910.1	2976.0	3103.3	3116.4	3081.3
62.5°	2629.2	2673.1	2787.2	2791.6	2752.1
65°	2330.8	2383.4	2462.4	2453.7	2414.1
67.5°	2036.7	2071.8	2146.4	2115.7	2071.8
70°	1738.2	1768.9	1830.4	1786.5	1747.0
72.5°	1448.5	1470.4	1523.1	1457.3	1409.0
75°	1163.2	1172.0	1211.5	1128.1	1057.8
77.5°	882.3	891.0	913.0	829.6	750.6
80°	627.7	627.7	636.5	548.7	496.0
82.5°	395.0	395.0	390.7	324.8	294.1
85°	206.3	201.9	197.5	158.0	144.8
87.5°	74.6	74.6	61.5	57.1	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)