

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: P487319

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-20-120-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: P487319
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-LD4-6HI-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

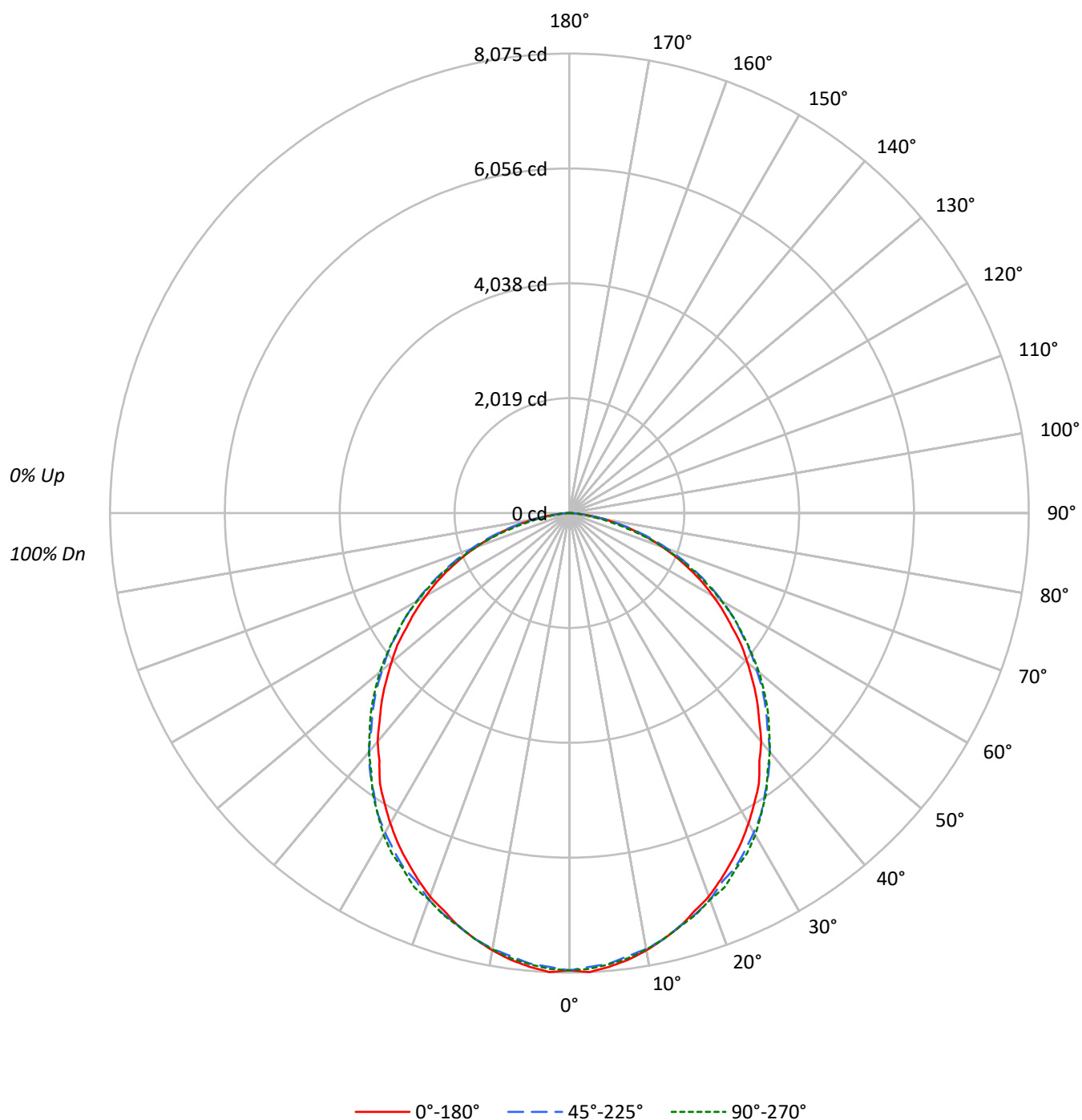
Lumens per Lamp: N/A
Luminaire Lumens: 20639.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	10811	10811	10811
5°	10811	10734	10752
10°	10660	10624	10636
15°	10477	10465	10471
20°	10266	10354	10348
25°	10025	10220	10253
30°	9781	10068	10150
35°	9540	9850	9893
40°	9213	9630	9622
45°	8878	9296	9388
50°	8543	8984	9104
55°	8183	8667	8719
60°	7838	8358	8299
65°	7427	7847	7693
70°	6844	7207	6879
75°	6052	6303	5504
80°	4868	4936	3846
85°	3188	3052	2238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.3	3.7
10°-20°	2123.7	10.3
20°-30°	3161.8	15.3
30°-40°	3721.6	18.0
40°-50°	3731.4	18.1
50°-60°	3272.1	15.9
60°-70°	2392.7	11.6
70°-80°	1233.1	6.0
80°-90°	247.4	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°	6040.8	29.3
0°-40°	9762.4	47.3
0°-60°	16765.9	81.2
0°-90°	20639.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20639.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8035	8035	8035	8035	8035	
5°	8004	7952	7947	8000	7961	758
15°	7521	7534	7512	7561	7517	2117
25°	6752	6783	6884	6981	6906	3110
35°	5808	5834	5997	6063	6023	3617
45°	4666	4688	4885	4947	4934	3596
55°	3488	3567	3695	3747	3717	3131
65°	2333	2386	2465	2456	2416	2308
75°	1164	1173	1212	1129	1059	1234
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°	8035.3	8035.3	8035.3	8035.3	8035.3
2.5°	8074.8	8035.3	7982.5	8026.5	8017.7
5°	8004.5	7951.8	7947.4	8000.1	7960.6
7.5°	7916.6	7907.9	7855.1	7912.3	7890.3
10°	7802.4	7793.6	7776.1	7815.6	7784.8
12.5°	7666.2	7657.4	7666.2	7688.2	7666.2
15°	7521.3	7534.4	7512.5	7560.8	7516.9
17.5°	7328.0	7341.1	7385.1	7402.6	7398.2
20°	7169.8	7178.6	7231.3	7301.6	7226.9
22.5°	6963.3	6985.3	7011.6	7139.0	7121.5
25°	6752.4	6783.2	6884.2	6980.9	6906.2
27.5°	6532.8	6563.5	6686.5	6756.8	6748.0
30°	6295.5	6326.3	6480.1	6576.7	6532.8
32.5°	6049.5	6102.2	6269.2	6352.6	6269.2
35°	5807.9	5834.2	5996.8	6062.7	6023.2
37.5°	5487.2	5588.2	5750.8	5794.7	5724.4
40°	5245.5	5249.9	5482.8	5482.8	5478.4
42.5°	4933.6	5003.9	5157.7	5241.2	5197.2
45°	4665.6	4687.6	4885.3	4946.8	4933.6
47.5°	4371.3	4459.2	4604.1	4674.4	4639.3
50°	4081.3	4142.8	4292.2	4384.5	4349.3
52.5°	3813.3	3861.7	4015.4	4068.2	4033.0
55°	3488.2	3567.3	3694.7	3747.4	3716.7
57.5°	3207.1	3264.2	3422.3	3439.9	3422.3
60°	2912.7	2978.6	3106.0	3119.2	3084.1
62.5°	2631.6	2675.5	2789.7	2794.1	2754.6
65°	2332.8	2385.5	2464.6	2455.8	2416.3
67.5°	2038.5	2073.6	2148.3	2117.5	2073.6
70°	1739.7	1770.5	1832.0	1788.1	1748.5
72.5°	1449.8	1471.7	1524.5	1458.6	1410.2
75°	1164.2	1173.0	1212.5	1129.1	1058.8
77.5°	883.0	891.8	913.8	830.3	751.2
80°	628.2	628.2	637.0	549.2	496.4
82.5°	395.4	395.4	391.0	325.1	294.3
85°	206.5	202.1	197.7	158.2	145.0
87.5°	74.7	74.7	61.5	57.1	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)