

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: P487279

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4STD-40-120-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: P487279
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-LD4-4STD-40-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

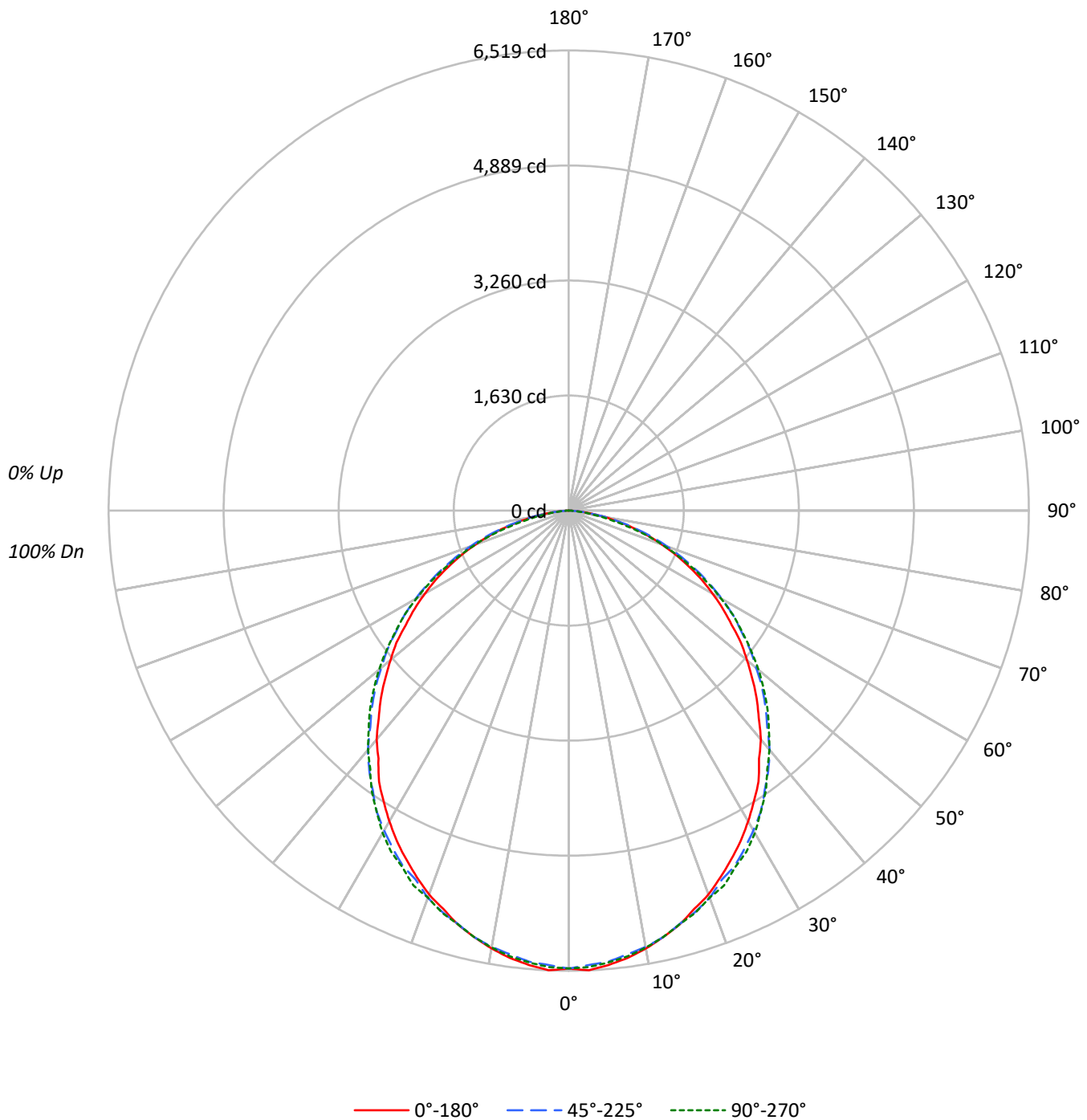
Lumens per Lamp: N/A
Luminaire Lumens: 16661.6 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	8728	8728	8728
5°	8728	8665	8680
10°	8606	8577	8586
15°	8458	8448	8453
20°	8288	8359	8354
25°	8093	8251	8277
30°	7896	8127	8194
35°	7701	7952	7987
40°	7438	7774	7768
45°	7167	7504	7579
50°	6897	7253	7349
55°	6606	6997	7038
60°	6328	6747	6700
65°	5996	6334	6210
70°	5525	5818	5553
75°	4886	5089	4443
80°	3930	3985	3106
85°	2573	2464	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.7	3.7
10°-20°	1714.4	10.3
20°-30°	2552.5	15.3
30°-40°	3004.4	18.0
40°-50°	3012.3	18.1
50°-60°	2641.5	15.9
60°-70°	1931.6	11.6
70°-80°	995.5	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°	4876.6	29.3
0°-40°	7881.0	47.3
0°-60°	13534.9	81.2
0°-90°	16661.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16661.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6487	6487	6487	6487	6487	
5°	6462	6419	6416	6458	6426	612
15°	6072	6082	6065	6104	6068	1709
25°	5451	5476	5558	5636	5575	2511
35°	4689	4710	4841	4894	4862	2920
45°	3766	3784	3944	3994	3983	2903
55°	2816	2880	2983	3025	3000	2528
65°	1883	1926	1990	1983	1951	1863
75°	940	947	979	912	855	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°	6486.7	6486.7	6486.7	6486.7	6486.7
2.5°	6518.7	6486.7	6444.2	6479.6	6472.5
5°	6461.9	6419.3	6415.8	6458.4	6426.4
7.5°	6391.0	6383.9	6341.3	6387.4	6369.7
10°	6298.8	6291.7	6277.5	6309.4	6284.6
12.5°	6188.8	6181.7	6188.8	6206.6	6188.8
15°	6071.8	6082.4	6064.7	6103.7	6068.2
17.5°	5915.7	5926.4	5961.8	5976.0	5972.5
20°	5788.1	5795.1	5837.7	5894.5	5834.2
22.5°	5621.4	5639.1	5660.4	5763.2	5749.0
25°	5451.1	5476.0	5557.5	5635.5	5575.3
27.5°	5273.8	5298.6	5397.9	5454.7	5447.6
30°	5082.3	5107.1	5231.2	5309.3	5273.8
32.5°	4883.7	4926.2	5061.0	5128.4	5061.0
35°	4688.6	4709.9	4841.1	4894.3	4862.4
37.5°	4429.7	4511.3	4642.5	4678.0	4621.2
40°	4234.6	4238.2	4426.2	4426.2	4422.6
42.5°	3982.8	4039.6	4163.7	4231.1	4195.6
45°	3766.5	3784.2	3943.8	3993.5	3982.8
47.5°	3528.9	3599.8	3716.8	3773.6	3745.2
50°	3294.8	3344.4	3465.0	3539.5	3511.1
52.5°	3078.5	3117.5	3241.6	3284.2	3255.8
55°	2816.0	2879.8	2982.7	3025.3	3000.4
57.5°	2589.0	2635.1	2762.8	2777.0	2762.8
60°	2351.4	2404.6	2507.4	2518.1	2489.7
62.5°	2124.4	2159.9	2252.1	2255.6	2223.7
65°	1883.2	1925.8	1989.6	1982.6	1950.6
67.5°	1645.6	1674.0	1734.3	1709.5	1674.0
70°	1404.5	1429.3	1478.9	1443.5	1411.5
72.5°	1170.4	1188.1	1230.7	1177.5	1138.5
75°	939.8	946.9	978.9	911.5	854.7
77.5°	712.9	720.0	737.7	670.3	606.5
80°	507.2	507.2	514.3	443.3	400.8
82.5°	319.2	319.2	315.6	262.4	237.6
85°	166.7	163.1	159.6	127.7	117.0
87.5°	60.3	60.3	49.7	46.1	49.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)