

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: P485853

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-50-120-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: P485853
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-24-2-INS-A125-LD4-1HI-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

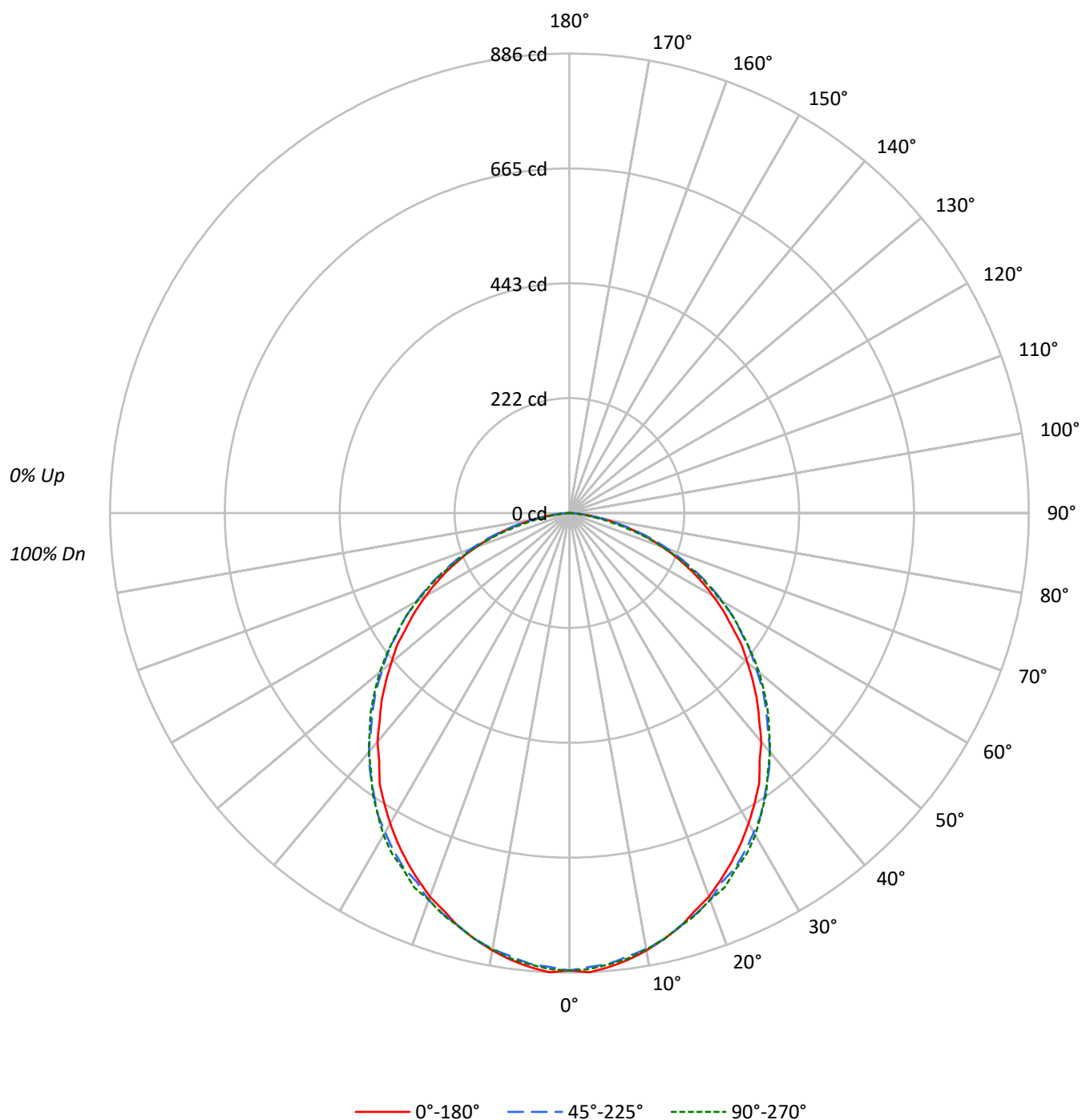
Lumens per Lamp: N/A
Luminaire Lumens: 2265.3 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	2373	2373	2373
5°	2373	2356	2360
10°	2340	2332	2335
15°	2300	2297	2298
20°	2253	2273	2271
25°	2200	2244	2251
30°	2147	2210	2228
35°	2094	2162	2172
40°	2022	2114	2112
45°	1949	2041	2061
50°	1876	1972	1999
55°	1796	1902	1914
60°	1721	1835	1822
65°	1630	1722	1689
70°	1502	1582	1510
75°	1329	1384	1208
80°	1069	1083	845
85°	701	670	491



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	3.7
10°-20°	233.1	10.3
20°-30°	347.0	15.3
30°-40°	408.5	18.0
40°-50°	409.5	18.1
50°-60°	359.1	15.9
60°-70°	262.6	11.6
70°-80°	135.3	6.0
80°-90°	27.2	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°	663.0	29.3
0°-40°	1071.5	47.3
0°-60°	1840.2	81.2
0°-90°	2265.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2265.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	879	873	872	878	874	83
15°	826	827	825	830	825	232
25°	741	744	756	766	758	341
35°	638	640	658	665	661	397
45°	512	514	536	543	542	395
55°	383	392	406	411	408	344
65°	256	262	270	270	265	253
75°	128	129	133	124	116	135
85°	23	22	22	17	16	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.9	881.9	881.9	881.9	881.9
2.5°	886.3	881.9	876.1	881.0	880.0
5°	878.6	872.8	872.3	878.1	873.7
7.5°	868.9	867.9	862.2	868.4	866.0
10°	856.4	855.4	853.5	857.8	854.4
12.5°	841.4	840.5	841.4	843.8	841.4
15°	825.5	827.0	824.6	829.9	825.0
17.5°	804.3	805.7	810.6	812.5	812.0
20°	786.9	787.9	793.7	801.4	793.2
22.5°	764.3	766.7	769.6	783.6	781.6
25°	741.1	744.5	755.6	766.2	758.0
27.5°	717.0	720.4	733.9	741.6	740.6
30°	691.0	694.4	711.2	721.8	717.0
32.5°	664.0	669.8	688.1	697.3	688.1
35°	637.5	640.4	658.2	665.4	661.1
37.5°	602.3	613.4	631.2	636.0	628.3
40°	575.7	576.2	601.8	601.8	601.3
42.5°	541.5	549.2	566.1	575.3	570.4
45°	512.1	514.5	536.2	542.9	541.5
47.5°	479.8	489.4	505.3	513.1	509.2
50°	448.0	454.7	471.1	481.2	477.4
52.5°	418.5	423.8	440.7	446.5	442.7
55°	382.9	391.5	405.5	411.3	407.9
57.5°	352.0	358.3	375.6	377.6	375.6
60°	319.7	326.9	340.9	342.4	338.5
62.5°	288.8	293.7	306.2	306.7	302.3
65°	256.0	261.8	270.5	269.5	265.2
67.5°	223.7	227.6	235.8	232.4	227.6
70°	190.9	194.3	201.1	196.3	191.9
72.5°	159.1	161.5	167.3	160.1	154.8
75°	127.8	128.7	133.1	123.9	116.2
77.5°	96.9	97.9	100.3	91.1	82.5
80°	69.0	69.0	69.9	60.3	54.5
82.5°	43.4	43.4	42.9	35.7	32.3
85°	22.7	22.2	21.7	17.4	15.9
87.5°	8.2	8.2	6.8	6.3	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)