

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: P486011

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5STD-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: P486011
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-LD4-5STD-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

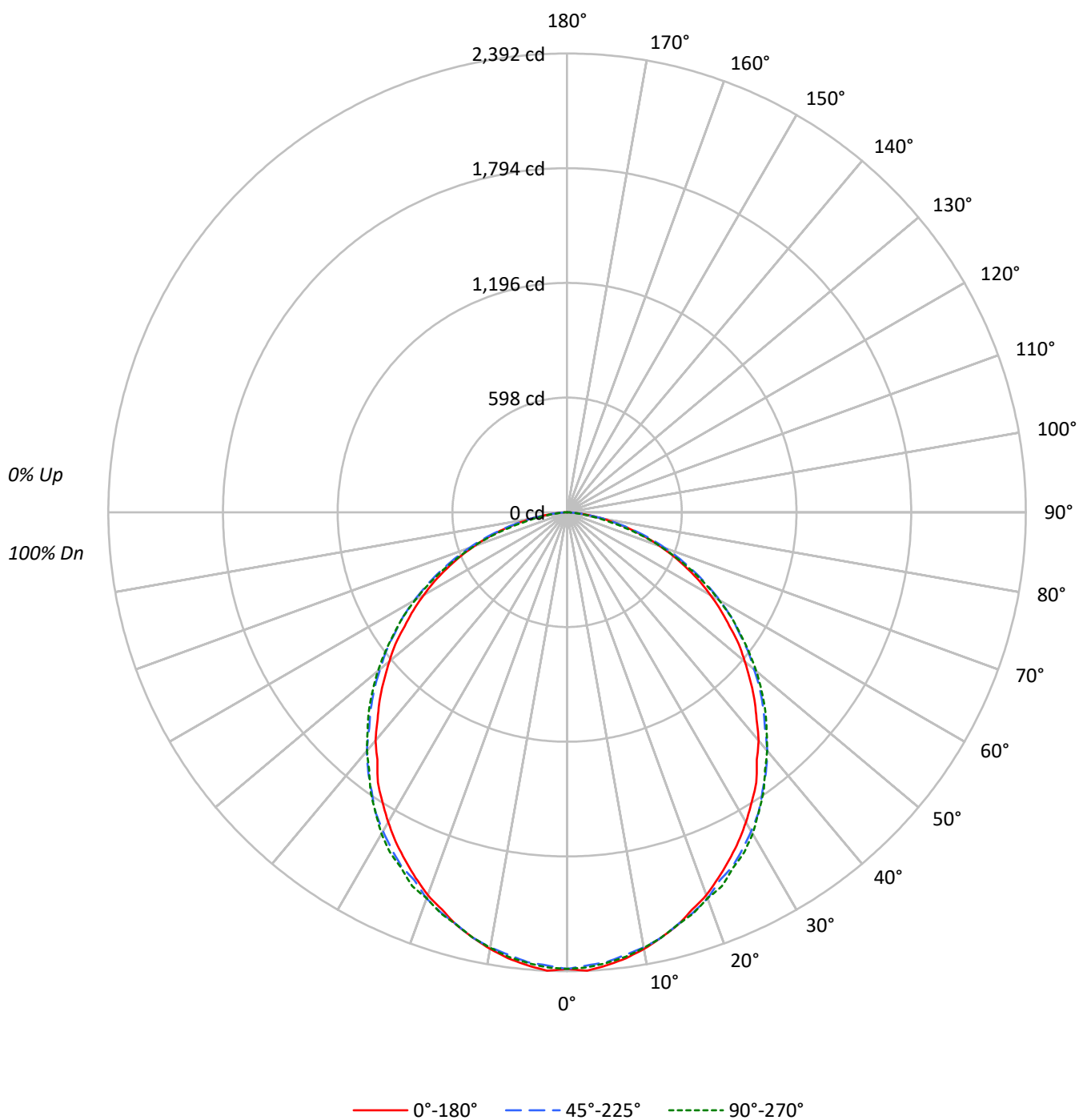
Lumens per Lamp: N/A
Luminaire Lumens: 6113.3 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	6405	6405	6405
5°	6404	6359	6369
10°	6315	6294	6301
15°	6206	6199	6203
20°	6082	6134	6130
25°	5939	6054	6074
30°	5794	5964	6013
35°	5651	5835	5861
40°	5458	5705	5700
45°	5259	5507	5561
50°	5061	5323	5393
55°	4847	5134	5165
60°	4643	4951	4916
65°	4400	4648	4557
70°	4054	4269	4075
75°	3585	3735	3261
80°	2884	2924	2278
85°	1890	1809	1325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	3.7
10°-20°	629.0	10.3
20°-30°	936.5	15.3
30°-40°	1102.3	18.0
40°-50°	1105.2	18.1
50°-60°	969.2	15.9
60°-70°	708.7	11.6
70°-80°	365.2	6.0
80°-90°	73.3	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°	1789.3	29.3
0°-40°	2891.6	47.3
0°-60°	4966.1	81.2
0°-90°	6113.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6113.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2380	2380	2380	2380	2380	
5°	2371	2355	2354	2370	2358	224
15°	2228	2232	2225	2240	2226	627
25°	2000	2009	2039	2068	2046	921
35°	1720	1728	1776	1796	1784	1071
45°	1382	1388	1447	1465	1461	1065
55°	1033	1057	1094	1110	1101	927
65°	691	707	730	727	716	684
75°	345	347	359	334	314	365
85°	61	60	59	47	43	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2391.8	2380.0	2364.4	2377.4	2374.8
5°	2370.9	2355.3	2354.0	2369.6	2357.9
7.5°	2344.9	2342.3	2326.7	2343.6	2337.1
10°	2311.1	2308.5	2303.3	2315.0	2305.9
12.5°	2270.7	2268.1	2270.7	2277.2	2270.7
15°	2227.8	2231.7	2225.2	2239.5	2226.5
17.5°	2170.5	2174.4	2187.5	2192.7	2191.4
20°	2123.7	2126.3	2141.9	2162.7	2140.6
22.5°	2062.5	2069.0	2076.8	2114.6	2109.4
25°	2000.1	2009.2	2039.1	2067.7	2045.6
27.5°	1935.0	1944.1	1980.6	2001.4	1998.8
30°	1864.7	1873.8	1919.4	1948.0	1935.0
32.5°	1791.9	1807.5	1856.9	1881.7	1856.9
35°	1720.3	1728.1	1776.2	1795.8	1784.1
37.5°	1625.3	1655.2	1703.4	1716.4	1695.6
40°	1553.7	1555.0	1624.0	1624.0	1622.7
42.5°	1461.3	1482.2	1527.7	1552.4	1539.4
45°	1382.0	1388.5	1447.0	1465.2	1461.3
47.5°	1294.8	1320.8	1363.7	1384.6	1374.2
50°	1208.9	1227.1	1271.4	1298.7	1288.3
52.5°	1129.5	1143.8	1189.4	1205.0	1194.6
55°	1033.2	1056.6	1094.4	1110.0	1100.9
57.5°	949.9	966.9	1013.7	1018.9	1013.7
60°	862.7	882.3	920.0	923.9	913.5
62.5°	779.5	792.5	826.3	827.6	815.9
65°	691.0	706.6	730.0	727.4	715.7
67.5°	603.8	614.2	636.3	627.2	614.2
70°	515.3	524.4	542.6	529.6	517.9
72.5°	429.4	435.9	451.5	432.0	417.7
75°	344.8	347.4	359.2	334.4	313.6
77.5°	261.6	264.2	270.7	245.9	222.5
80°	186.1	186.1	188.7	162.7	147.0
82.5°	117.1	117.1	115.8	96.3	87.2
85°	61.2	59.9	58.6	46.8	42.9
87.5°	22.1	22.1	18.2	16.9	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)