

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: P485947

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-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: P485947
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-LD4-3STD-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

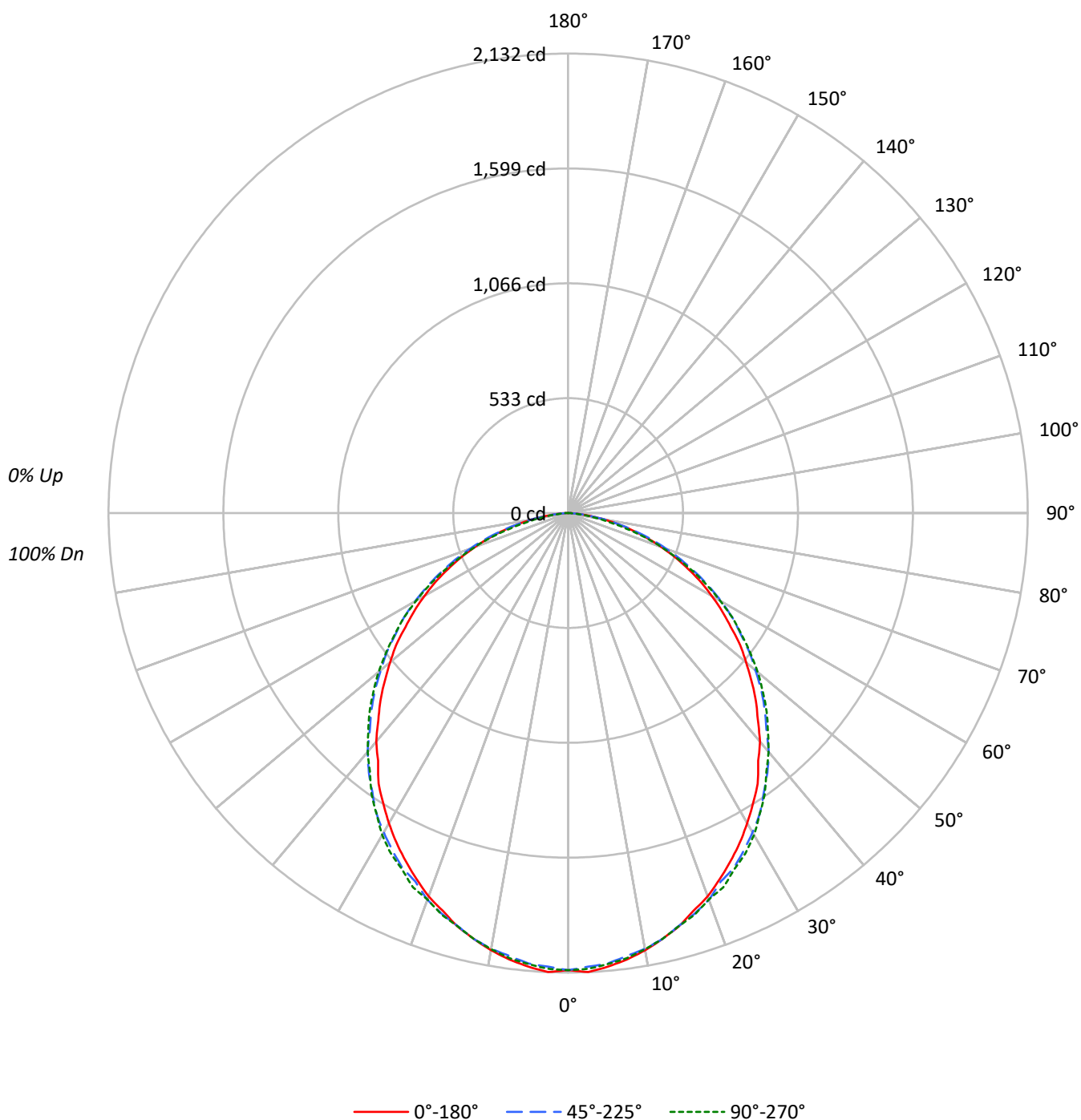
Lumens per Lamp: N/A
Luminaire Lumens: 5448.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	5708	5708	5708
5°	5707	5667	5676
10°	5628	5609	5615
15°	5531	5524	5528
20°	5420	5466	5463
25°	5292	5396	5413
30°	5164	5315	5358
35°	5036	5200	5223
40°	4864	5084	5080
45°	4687	4907	4956
50°	4510	4743	4806
55°	4320	4576	4603
60°	4138	4413	4381
65°	3921	4143	4061
70°	3613	3805	3631
75°	3195	3328	2906
80°	2569	2607	2030
85°	1683	1612	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	3.7
10°-20°	560.6	10.3
20°-30°	834.6	15.3
30°-40°	982.4	18.0
40°-50°	985.0	18.1
50°-60°	863.7	15.9
60°-70°	631.6	11.6
70°-80°	325.5	6.0
80°-90°	65.3	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°	1594.6	29.3
0°-40°	2576.9	47.3
0°-60°	4425.6	81.2
0°-90°	5448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2113	2099	2098	2112	2101	200
15°	1985	1989	1983	1996	1984	559
25°	1782	1790	1817	1843	1823	821
35°	1533	1540	1583	1600	1590	955
45°	1232	1237	1290	1306	1302	949
55°	921	942	975	989	981	827
65°	616	630	651	648	638	609
75°	307	310	320	298	280	326
85°	54	53	52	42	38	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121.0	2121.0	2121.0	2121.0	2121.0
2.5°	2131.5	2121.0	2107.1	2118.7	2116.4
5°	2112.9	2099.0	2097.8	2111.8	2101.3
7.5°	2089.7	2087.4	2073.5	2088.6	2082.8
10°	2059.6	2057.2	2052.6	2063.0	2054.9
12.5°	2023.6	2021.3	2023.6	2029.4	2023.6
15°	1985.3	1988.8	1983.0	1995.8	1984.2
17.5°	1934.3	1937.8	1949.4	1954.0	1952.9
20°	1892.6	1894.9	1908.8	1927.4	1907.7
22.5°	1838.1	1843.9	1850.8	1884.5	1879.8
25°	1782.4	1790.5	1817.2	1842.7	1823.0
27.5°	1724.4	1732.5	1765.0	1783.6	1781.2
30°	1661.8	1669.9	1710.5	1736.0	1724.4
32.5°	1596.9	1610.8	1654.8	1676.9	1654.8
35°	1533.1	1540.0	1582.9	1600.3	1589.9
37.5°	1448.4	1475.1	1518.0	1529.6	1511.0
40°	1384.6	1385.8	1447.3	1447.3	1446.1
42.5°	1302.3	1320.9	1361.4	1383.5	1371.9
45°	1231.6	1237.4	1289.5	1305.8	1302.3
47.5°	1153.9	1177.1	1215.3	1233.9	1224.6
50°	1077.3	1093.6	1133.0	1157.3	1148.1
52.5°	1006.6	1019.3	1059.9	1073.9	1064.6
55°	920.8	941.6	975.3	989.2	981.1
57.5°	846.6	861.6	903.4	908.0	903.4
60°	768.9	786.3	819.9	823.4	814.1
62.5°	694.6	706.2	736.4	737.5	727.1
65°	615.8	629.7	650.6	648.3	637.8
67.5°	538.1	547.4	567.1	559.0	547.4
70°	459.2	467.3	483.6	472.0	461.5
72.5°	382.7	388.5	402.4	385.0	372.3
75°	307.3	309.6	320.1	298.0	279.5
77.5°	233.1	235.4	241.2	219.2	198.3
80°	165.8	165.8	168.2	145.0	131.0
82.5°	104.4	104.4	103.2	85.8	77.7
85°	54.5	53.3	52.2	41.7	38.3
87.5°	19.7	19.7	16.2	15.1	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)