

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: P485148

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-27-120-EDD-90**

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: P485148
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-12-4-INS-A125-LD4-2STD-27-120-EDD-90
Description: 1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

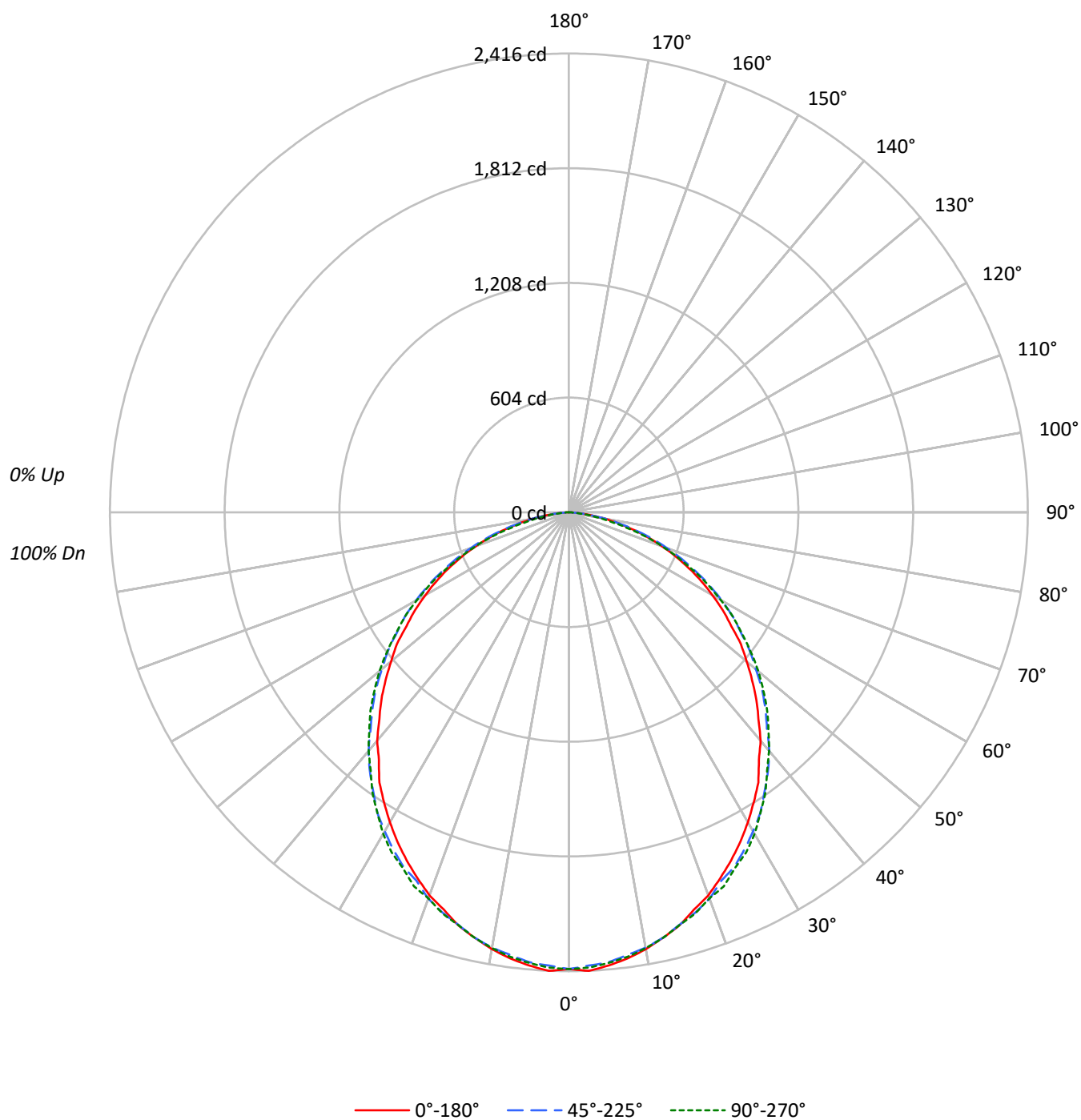
Lumens per Lamp: N/A
Luminaire Lumens: 6176.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		91
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6471	6471	6471
5°	6471	6425	6435
10°	6380	6359	6366
15°	6271	6263	6267
20°	6145	6197	6194
25°	6000	6117	6137
30°	5854	6026	6075
35°	5710	5895	5921
40°	5514	5764	5759
45°	5314	5564	5619
50°	5113	5377	5449
55°	4898	5187	5218
60°	4691	5003	4968
65°	4445	4697	4604
70°	4096	4314	4117
75°	3622	3773	3295
80°	2913	2954	2303
85°	1908	1828	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	3.7
10°-20°	635.6	10.3
20°-30°	946.2	15.3
30°-40°	1113.8	18.0
40°-50°	1116.7	18.1
50°-60°	979.2	15.9
60°-70°	716.0	11.6
70°-80°	369.0	6.0
80°-90°	74.0	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°	1807.8	29.3
0°-40°	2921.6	47.3
0°-60°	5017.5	81.2
0°-90°	6176.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6176.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2405	2405	2405	2405	2405	
5°	2396	2380	2378	2394	2382	227
15°	2251	2255	2248	2263	2250	633
25°	2021	2030	2060	2089	2067	931
35°	1738	1746	1795	1814	1802	1082
45°	1396	1403	1462	1480	1476	1076
55°	1044	1068	1106	1122	1112	937
65°	698	714	738	735	723	691
75°	348	351	363	338	317	369
85°	62	60	59	47	43	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2404.7	2404.7	2404.7	2404.7	2404.7
2.5°	2416.5	2404.7	2388.9	2402.1	2399.4
5°	2395.5	2379.7	2378.4	2394.2	2382.3
7.5°	2369.2	2366.6	2350.8	2367.9	2361.3
10°	2335.0	2332.4	2327.1	2339.0	2329.7
12.5°	2294.2	2291.6	2294.2	2300.8	2294.2
15°	2250.9	2254.8	2248.2	2262.7	2249.5
17.5°	2193.0	2197.0	2210.1	2215.4	2214.0
20°	2145.7	2148.3	2164.1	2185.1	2162.8
22.5°	2083.9	2090.5	2098.4	2136.5	2131.2
25°	2020.8	2030.0	2060.2	2089.1	2066.8
27.5°	1955.0	1964.2	2001.1	2022.1	2019.5
30°	1884.0	1893.2	1939.3	1968.2	1955.0
32.5°	1810.4	1826.2	1876.2	1901.1	1876.2
35°	1738.1	1746.0	1794.6	1814.4	1802.5
37.5°	1642.1	1672.4	1721.0	1734.2	1713.1
40°	1569.8	1571.1	1640.8	1640.8	1639.5
42.5°	1476.5	1497.5	1543.5	1568.5	1555.4
45°	1396.3	1402.8	1462.0	1480.4	1476.5
47.5°	1308.2	1334.5	1377.9	1398.9	1388.4
50°	1221.4	1239.8	1284.5	1312.1	1301.6
52.5°	1141.2	1155.7	1201.7	1217.5	1206.9
55°	1043.9	1067.6	1105.7	1121.5	1112.3
57.5°	959.8	976.9	1024.2	1029.5	1024.2
60°	871.7	891.4	929.5	933.5	923.0
62.5°	787.5	800.7	834.9	836.2	824.4
65°	698.1	713.9	737.6	734.9	723.1
67.5°	610.0	620.6	642.9	633.7	620.6
70°	520.6	529.8	548.3	535.1	523.3
72.5°	433.9	440.4	456.2	436.5	422.0
75°	348.4	351.0	362.9	337.9	316.9
77.5°	264.3	266.9	273.5	248.5	224.8
80°	188.0	188.0	190.6	164.3	148.6
82.5°	118.3	118.3	117.0	97.3	88.1
85°	61.8	60.5	59.2	47.3	43.4
87.5°	22.4	22.4	18.4	17.1	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)