

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: P486007

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-5LO-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: P486007
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-LD4-5LO-40-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

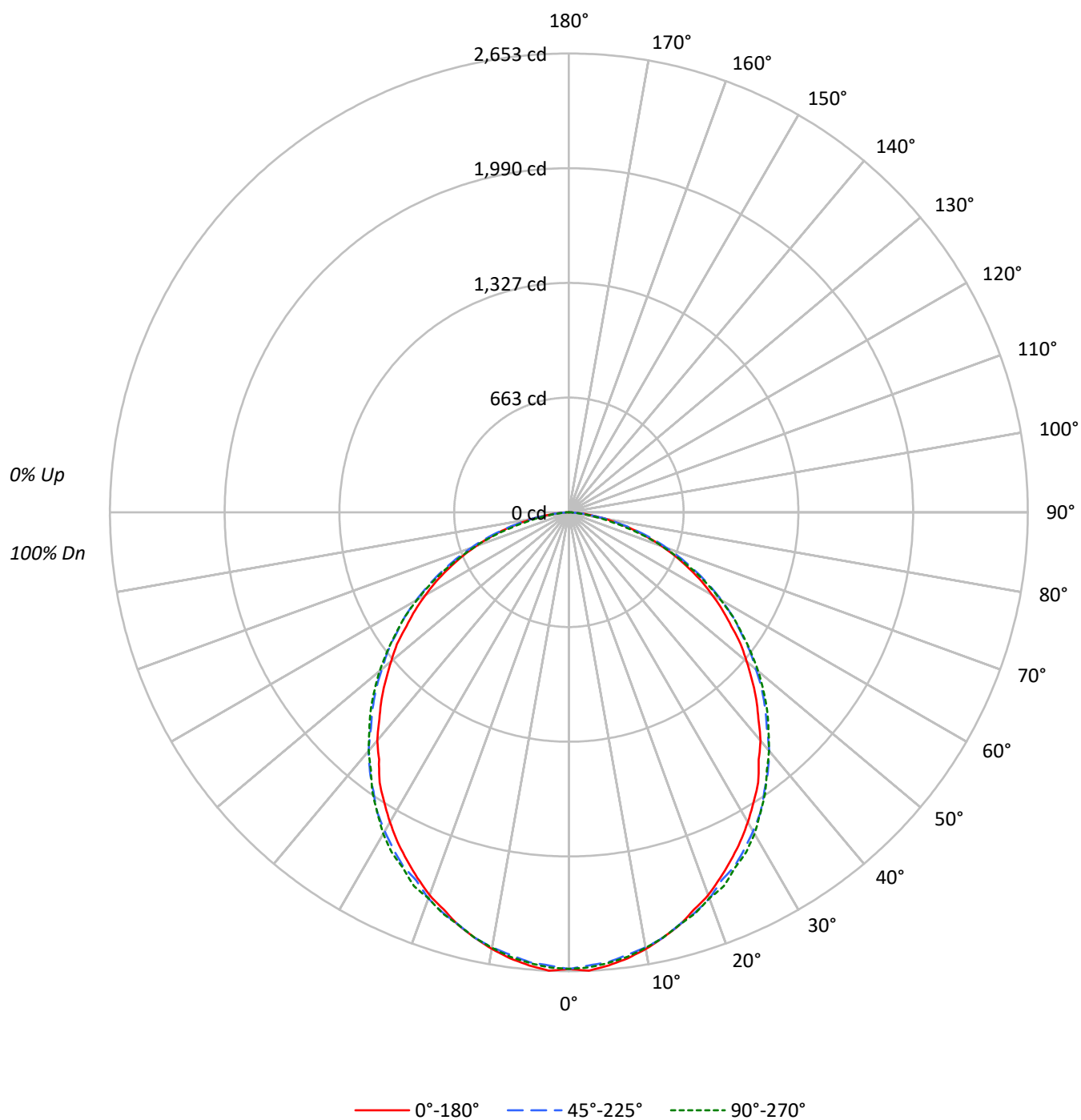
Lumens per Lamp: N/A
Luminaire Lumens: 6780.4 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7104	7104	7104
5°	7103	7053	7064
10°	7004	6980	6988
15°	6884	6876	6880
20°	6745	6803	6799
25°	6587	6715	6736
30°	6426	6615	6669
35°	6268	6472	6500
40°	6054	6327	6322
45°	5833	6108	6168
50°	5613	5903	5982
55°	5377	5695	5728
60°	5150	5492	5453
65°	4880	5156	5054
70°	4497	4735	4519
75°	3977	4141	3616
80°	3199	3243	2528
85°	2093	2004	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	3.7
10°-20°	697.7	10.3
20°-30°	1038.7	15.3
30°-40°	1222.6	18.0
40°-50°	1225.9	18.1
50°-60°	1075.0	15.9
60°-70°	786.0	11.6
70°-80°	405.1	6.0
80°-90°	81.3	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°	1984.5	29.3
0°-40°	3207.2	47.3
0°-60°	5508.0	81.2
0°-90°	6780.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6780.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2640	2640	2640	2640	2640	
5°	2630	2612	2611	2628	2615	249
15°	2471	2475	2468	2484	2470	695
25°	2218	2228	2262	2293	2269	1022
35°	1908	1917	1970	1992	1979	1188
45°	1533	1540	1605	1625	1621	1181
55°	1146	1172	1214	1231	1221	1029
65°	766	784	810	807	794	758
75°	382	385	398	371	348	405
85°	68	66	65	52	48	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2639.8	2639.8	2639.8	2639.8	2639.8
2.5°	2652.8	2639.8	2622.4	2636.9	2634.0
5°	2629.7	2612.3	2610.9	2628.2	2615.2
7.5°	2600.8	2597.9	2580.6	2599.3	2592.1
10°	2563.3	2560.4	2554.6	2567.6	2557.5
12.5°	2518.5	2515.6	2518.5	2525.7	2518.5
15°	2470.9	2475.2	2468.0	2483.9	2469.5
17.5°	2407.4	2411.7	2426.2	2431.9	2430.5
20°	2355.4	2358.3	2375.6	2398.7	2374.2
22.5°	2287.6	2294.8	2303.5	2345.3	2339.6
25°	2218.3	2228.4	2261.6	2293.4	2268.8
27.5°	2146.2	2156.3	2196.7	2219.8	2216.9
30°	2068.2	2078.3	2128.8	2160.6	2146.2
32.5°	1987.4	2004.7	2059.6	2087.0	2059.6
35°	1908.0	1916.7	1970.1	1991.7	1978.7
37.5°	1802.7	1835.9	1889.3	1903.7	1880.6
40°	1723.3	1724.7	1801.2	1801.2	1799.8
42.5°	1620.8	1643.9	1694.4	1721.8	1707.4
45°	1532.8	1540.0	1604.9	1625.1	1620.8
47.5°	1436.1	1464.9	1512.6	1535.7	1524.1
50°	1340.8	1361.0	1410.1	1440.4	1428.8
52.5°	1252.8	1268.6	1319.2	1336.5	1324.9
55°	1146.0	1171.9	1213.8	1231.1	1221.0
57.5°	1053.6	1072.4	1124.3	1130.1	1124.3
60°	956.9	978.5	1020.4	1024.7	1013.2
62.5°	864.5	879.0	916.5	917.9	904.9
65°	766.4	783.7	809.7	806.8	793.8
67.5°	669.7	681.2	705.8	695.7	681.2
70°	571.5	581.6	601.8	587.4	574.4
72.5°	476.3	483.5	500.8	479.2	463.3
75°	382.5	385.4	398.3	370.9	347.8
77.5°	290.1	293.0	300.2	272.8	246.8
80°	206.4	206.4	209.3	180.4	163.1
82.5°	129.9	129.9	128.5	106.8	96.7
85°	67.8	66.4	64.9	52.0	47.6
87.5°	24.5	24.5	20.2	18.8	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)