

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: P485916

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-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: P485916
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-LD4-3HI-27-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

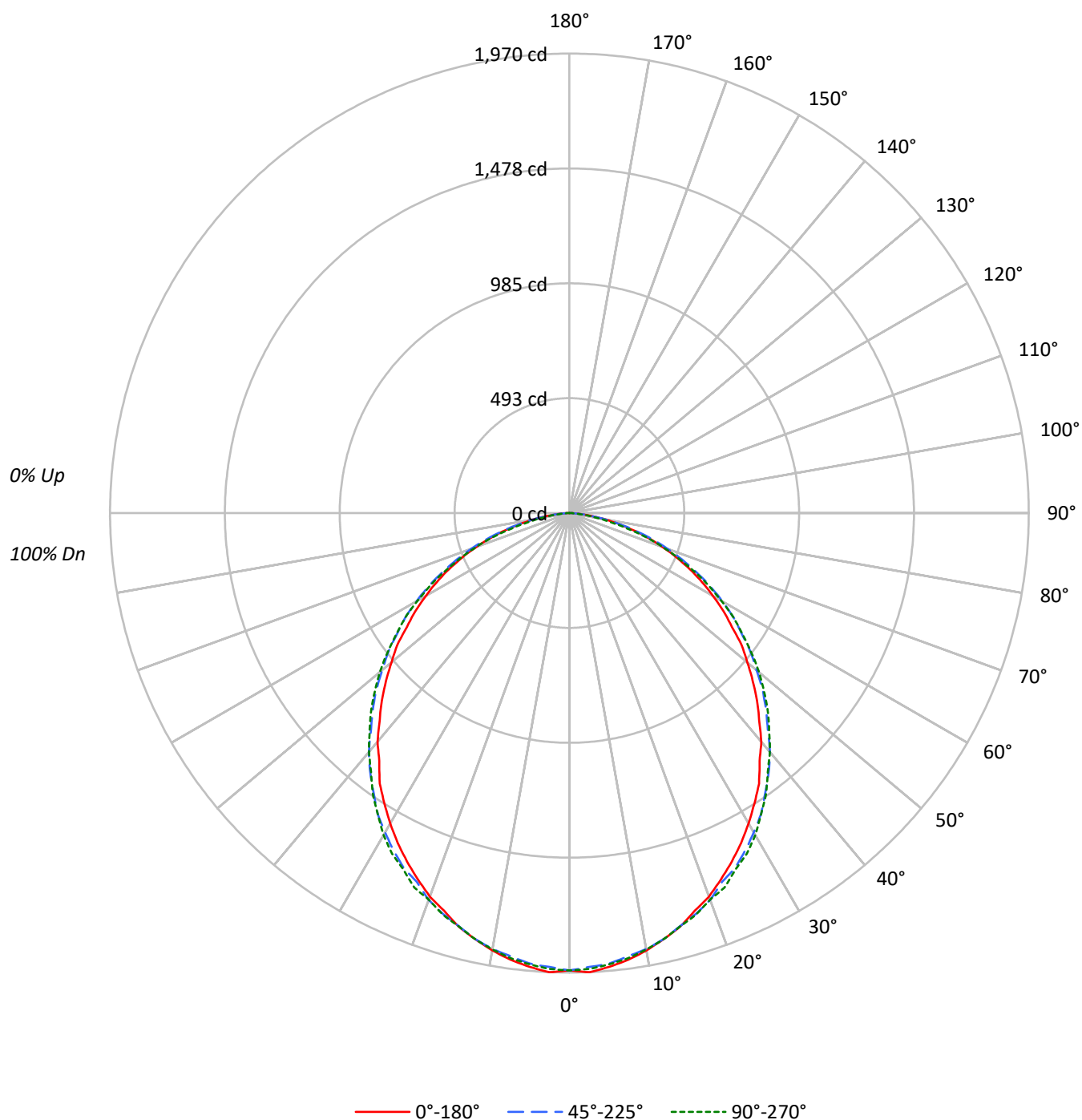
Lumens per Lamp: N/A
Luminaire Lumens: 5036.5 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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	30	10	0		
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°	5276	5276	5276
5°	5276	5239	5247
10°	5203	5185	5191
15°	5113	5107	5110
20°	5010	5053	5050
25°	4893	4988	5004
30°	4774	4914	4954
35°	4656	4807	4828
40°	4497	4700	4696
45°	4333	4537	4582
50°	4170	4385	4443
55°	3993	4230	4255
60°	3825	4080	4050
65°	3625	3829	3754
70°	3340	3518	3357
75°	2954	3077	2687
80°	2376	2410	1877
85°	1556	1488	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	3.7
10°-20°	518.2	10.3
20°-30°	771.6	15.3
30°-40°	908.2	18.0
40°-50°	910.6	18.1
50°-60°	798.5	15.9
60°-70°	583.9	11.6
70°-80°	300.9	6.0
80°-90°	60.4	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°	1474.1	29.3
0°-40°	2382.3	47.3
0°-60°	4091.3	81.2
0°-90°	5036.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1961	1961	1961	1961	1961	
5°	1953	1940	1939	1952	1943	185
15°	1835	1839	1833	1845	1834	517
25°	1648	1655	1680	1704	1685	759
35°	1417	1424	1463	1480	1470	883
45°	1138	1144	1192	1207	1204	877
55°	851	870	902	914	907	764
65°	569	582	601	599	590	563
75°	284	286	296	276	258	301
85°	50	49	48	39	35	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1960.8	1960.8	1960.8	1960.8	1960.8
2.5°	1970.5	1960.8	1948.0	1958.7	1956.5
5°	1953.3	1940.5	1939.4	1952.2	1942.6
7.5°	1931.9	1929.7	1916.9	1930.8	1925.4
10°	1904.0	1901.9	1897.6	1907.2	1899.7
12.5°	1870.8	1868.6	1870.8	1876.1	1870.8
15°	1835.4	1838.6	1833.2	1845.0	1834.3
17.5°	1788.2	1791.4	1802.2	1806.4	1805.4
20°	1749.6	1751.8	1764.6	1781.8	1763.6
22.5°	1699.2	1704.6	1711.0	1742.1	1737.8
25°	1647.8	1655.3	1679.9	1703.5	1685.3
27.5°	1594.2	1601.7	1631.7	1648.8	1646.7
30°	1536.3	1543.8	1581.3	1604.9	1594.2
32.5°	1476.2	1489.1	1529.8	1550.2	1529.8
35°	1417.3	1423.7	1463.4	1479.5	1469.8
37.5°	1339.0	1363.7	1403.3	1414.1	1396.9
40°	1280.1	1281.1	1337.9	1337.9	1336.9
42.5°	1203.9	1221.1	1258.6	1279.0	1268.3
45°	1138.5	1143.9	1192.1	1207.2	1203.9
47.5°	1066.7	1088.2	1123.5	1140.7	1132.1
50°	996.0	1011.0	1047.4	1069.9	1061.4
52.5°	930.6	942.4	979.9	992.7	984.2
55°	851.2	870.5	901.6	914.5	907.0
57.5°	782.6	796.6	835.1	839.4	835.1
60°	710.8	726.9	758.0	761.2	752.6
62.5°	642.2	652.9	680.8	681.8	672.2
65°	569.3	582.1	601.4	599.3	589.6
67.5°	497.4	506.0	524.2	516.7	506.0
70°	424.5	432.0	447.1	436.3	426.7
72.5°	353.8	359.1	372.0	355.9	344.1
75°	284.1	286.2	295.9	275.5	258.4
77.5°	215.5	217.6	223.0	202.6	183.3
80°	153.3	153.3	155.5	134.0	121.1
82.5°	96.5	96.5	95.4	79.3	71.8
85°	50.4	49.3	48.2	38.6	35.4
87.5°	18.2	18.2	15.0	13.9	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)