

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: P485921

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3HI-35-120-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: P485921
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-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

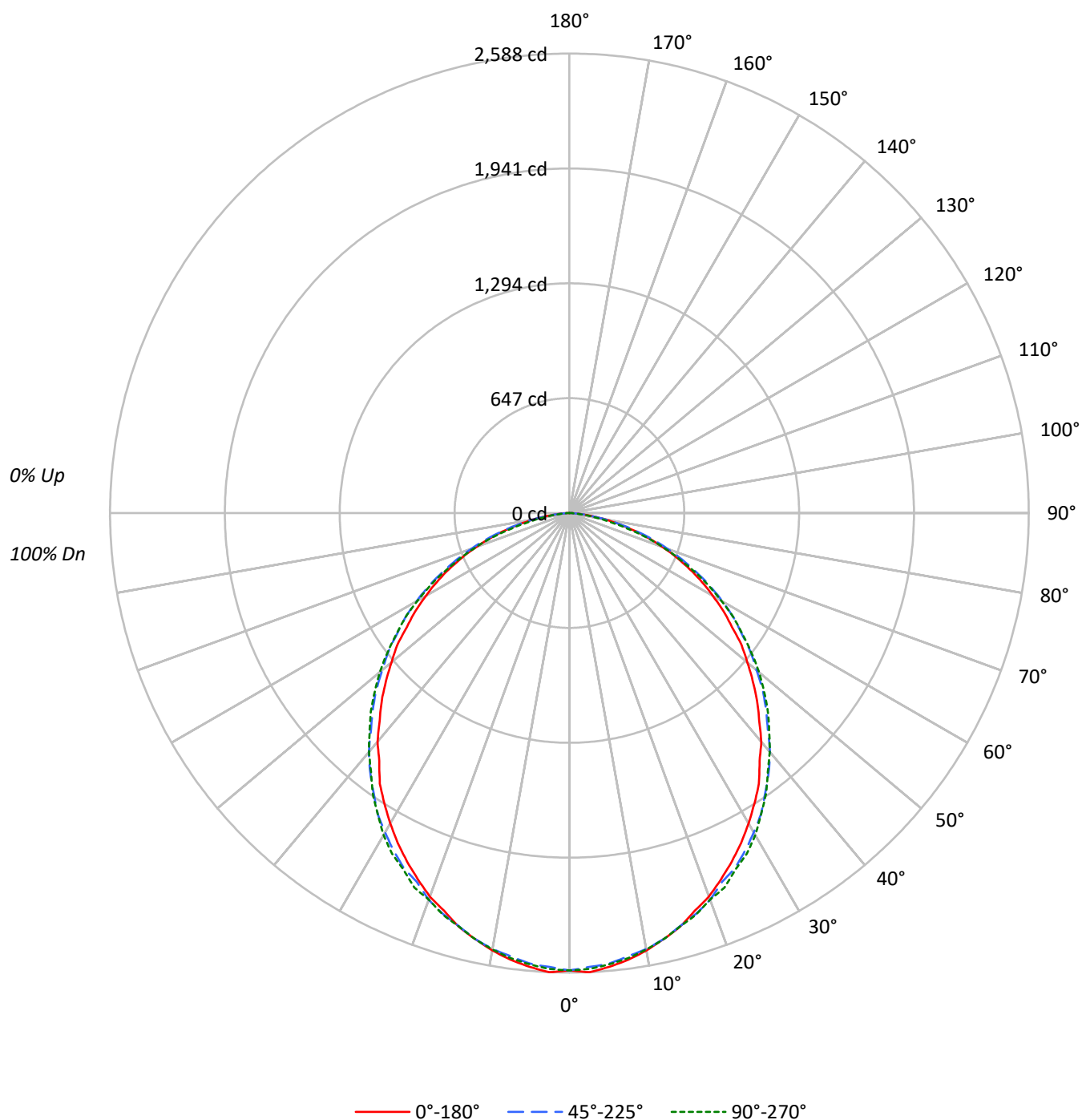
Lumens per Lamp: N/A
Luminaire Lumens: 6616.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					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°	6932	6932	6932
5°	6931	6882	6893
10°	6835	6812	6819
15°	6717	6709	6713
20°	6582	6638	6634
25°	6427	6553	6573
30°	6271	6455	6507
35°	6116	6315	6343
40°	5907	6174	6169
45°	5692	5960	6019
50°	5478	5761	5837
55°	5246	5557	5590
60°	5025	5359	5321
65°	4762	5031	4932
70°	4388	4621	4410
75°	3880	4041	3529
80°	3121	3164	2466
85°	2044	1958	1436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	3.7
10°-20°	680.8	10.3
20°-30°	1013.6	15.3
30°-40°	1193.0	18.0
40°-50°	1196.2	18.1
50°-60°	1048.9	15.9
60°-70°	767.0	11.6
70°-80°	395.3	6.0
80°-90°	79.3	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°	1936.5	29.3
0°-40°	3129.5	47.3
0°-60°	5374.7	81.2
0°-90°	6616.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6616.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2576	2576	2576	2576	2576	
5°	2566	2549	2548	2565	2552	243
15°	2411	2415	2408	2424	2410	679
25°	2165	2174	2207	2238	2214	997
35°	1862	1870	1922	1944	1931	1160
45°	1496	1503	1566	1586	1582	1153
55°	1118	1144	1184	1201	1192	1004
65°	748	765	790	787	775	740
75°	373	376	389	362	339	395
85°	66	65	63	51	46	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2575.9	2575.9	2575.9	2575.9	2575.9
2.5°	2588.5	2575.9	2559.0	2573.1	2570.2
5°	2566.0	2549.1	2547.7	2564.6	2551.9
7.5°	2537.8	2535.0	2518.1	2536.4	2529.4
10°	2501.2	2498.4	2492.8	2505.5	2495.6
12.5°	2457.6	2454.8	2457.6	2464.6	2457.6
15°	2411.1	2415.3	2408.3	2423.8	2409.7
17.5°	2349.1	2353.4	2367.4	2373.1	2371.7
20°	2298.4	2301.2	2318.1	2340.7	2316.7
22.5°	2232.2	2239.3	2247.7	2288.6	2282.9
25°	2164.6	2174.5	2206.9	2237.9	2213.9
27.5°	2094.2	2104.1	2143.5	2166.0	2163.2
30°	2018.2	2028.0	2077.3	2108.3	2094.2
32.5°	1939.3	1956.2	2009.7	2036.5	2009.7
35°	1861.8	1870.3	1922.4	1943.5	1930.8
37.5°	1759.0	1791.4	1843.5	1857.6	1835.1
40°	1681.6	1683.0	1757.6	1757.6	1756.2
42.5°	1581.6	1604.1	1653.4	1680.2	1666.1
45°	1495.7	1502.7	1566.1	1585.8	1581.6
47.5°	1401.3	1429.5	1476.0	1498.5	1487.2
50°	1308.4	1328.1	1376.0	1405.5	1394.3
52.5°	1222.4	1237.9	1287.2	1304.1	1292.9
55°	1118.2	1143.6	1184.4	1201.3	1191.5
57.5°	1028.1	1046.4	1097.1	1102.7	1097.1
60°	933.7	954.9	995.7	999.9	988.7
62.5°	843.6	857.7	894.3	895.7	883.0
65°	747.8	764.7	790.1	787.3	774.6
67.5°	653.5	664.7	688.7	678.8	664.7
70°	557.7	567.6	587.3	573.2	560.5
72.5°	464.8	471.8	488.7	467.6	452.1
75°	373.2	376.0	388.7	361.9	339.4
77.5°	283.1	285.9	292.9	266.2	240.8
80°	201.4	201.4	204.2	176.0	159.1
82.5°	126.8	126.8	125.3	104.2	94.4
85°	66.2	64.8	63.4	50.7	46.5
87.5°	23.9	23.9	19.7	18.3	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)