

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: P487235

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3STD-20-120-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: P487235
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-24-4-INS-A125-LD4-3STD-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

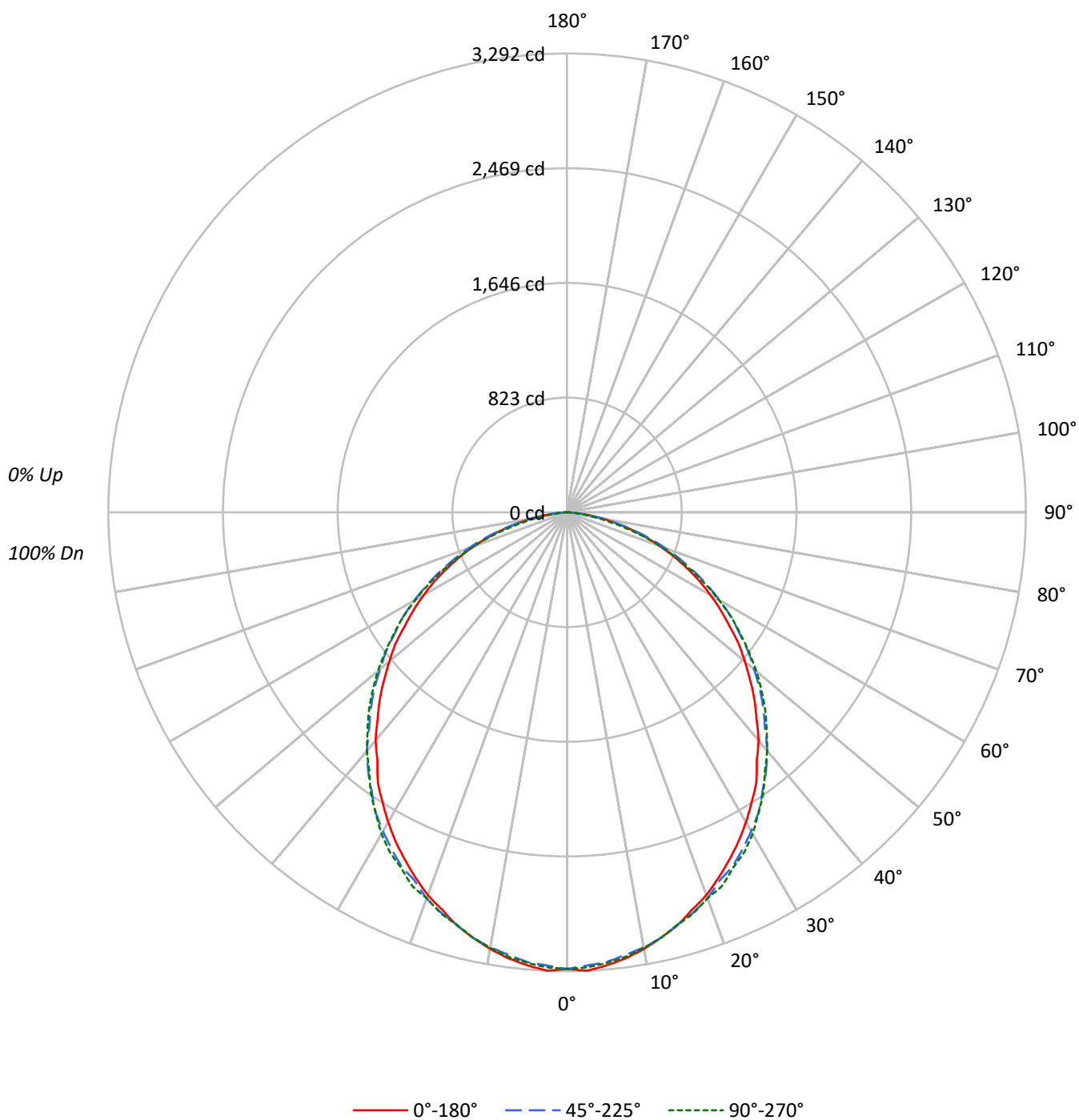
Lumens per Lamp: N/A
Luminaire Lumens: 8413.3 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	4407	4407	4407
5°	4407	4376	4383
10°	4345	4331	4336
15°	4271	4266	4268
20°	4185	4221	4218
25°	4086	4166	4179
30°	3987	4104	4137
35°	3889	4015	4033
40°	3756	3926	3922
45°	3619	3789	3827
50°	3482	3662	3711
55°	3335	3533	3554
60°	3195	3407	3383
65°	3027	3199	3136
70°	2790	2938	2804
75°	2467	2570	2244
80°	1984	2012	1568
85°	1300	1244	912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.9	3.7
10°-20°	865.7	10.3
20°-30°	1288.9	15.3
30°-40°	1517.1	18.0
40°-50°	1521.1	18.1
50°-60°	1333.8	15.9
60°-70°	975.3	11.6
70°-80°	502.7	6.0
80°-90°	100.9	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°	2462.5	29.3
0°-40°	3979.5	47.3
0°-60°	6834.4	81.2
0°-90°	8413.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8413.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3276	3276	3276	3276	3276	
5°	3263	3242	3240	3261	3245	309
15°	3066	3071	3062	3082	3064	863
25°	2753	2765	2806	2846	2815	1268
35°	2368	2378	2444	2471	2455	1474
45°	1902	1911	1991	2016	2011	1466
55°	1422	1454	1506	1528	1515	1276
65°	951	972	1005	1001	985	941
75°	475	478	494	460	432	503
85°	84	82	81	64	59	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3275.5	3275.5	3275.5	3275.5	3275.5
2.5°	3291.6	3275.5	3254.0	3271.9	3268.3
5°	3263.0	3241.5	3239.7	3261.2	3245.0
7.5°	3227.1	3223.6	3202.1	3225.3	3216.4
10°	3180.6	3177.0	3169.8	3185.9	3173.4
12.5°	3125.1	3121.5	3125.1	3134.0	3125.1
15°	3066.0	3071.3	3062.4	3082.1	3064.2
17.5°	2987.2	2992.5	3010.4	3017.6	3015.8
20°	2922.7	2926.3	2947.8	2976.4	2946.0
22.5°	2838.5	2847.5	2858.2	2910.2	2903.0
25°	2752.6	2765.1	2806.3	2845.7	2815.2
27.5°	2663.0	2675.5	2725.7	2754.3	2750.8
30°	2566.3	2578.8	2641.5	2680.9	2663.0
32.5°	2466.0	2487.5	2555.6	2589.6	2555.6
35°	2367.5	2378.3	2444.5	2471.4	2455.3
37.5°	2236.8	2278.0	2344.2	2362.1	2333.5
40°	2138.3	2140.1	2235.0	2235.0	2233.2
42.5°	2011.1	2039.8	2102.5	2136.5	2118.6
45°	1901.9	1910.8	1991.4	2016.5	2011.1
47.5°	1781.9	1817.7	1876.8	1905.5	1891.2
50°	1663.7	1688.8	1749.7	1787.3	1773.0
52.5°	1554.5	1574.2	1636.8	1658.3	1644.0
55°	1421.9	1454.2	1506.1	1527.6	1515.1
57.5°	1307.3	1330.6	1395.1	1402.2	1395.1
60°	1187.3	1214.2	1266.1	1271.5	1257.2
62.5°	1072.7	1090.6	1137.2	1139.0	1122.9
65°	950.9	972.4	1004.7	1001.1	985.0
67.5°	831.0	845.3	875.7	863.2	845.3
70°	709.2	721.7	746.8	728.9	712.8
72.5°	591.0	599.9	621.4	594.6	574.9
75°	474.6	478.2	494.3	460.3	431.6
77.5°	360.0	363.5	372.5	338.5	306.2
80°	256.1	256.1	259.7	223.9	202.4
82.5°	161.2	161.2	159.4	132.5	120.0
85°	84.2	82.4	80.6	64.5	59.1
87.5°	30.4	30.4	25.1	23.3	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)