

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: P485913

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2STD-50-120-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: P485913
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-LD4-2STD-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

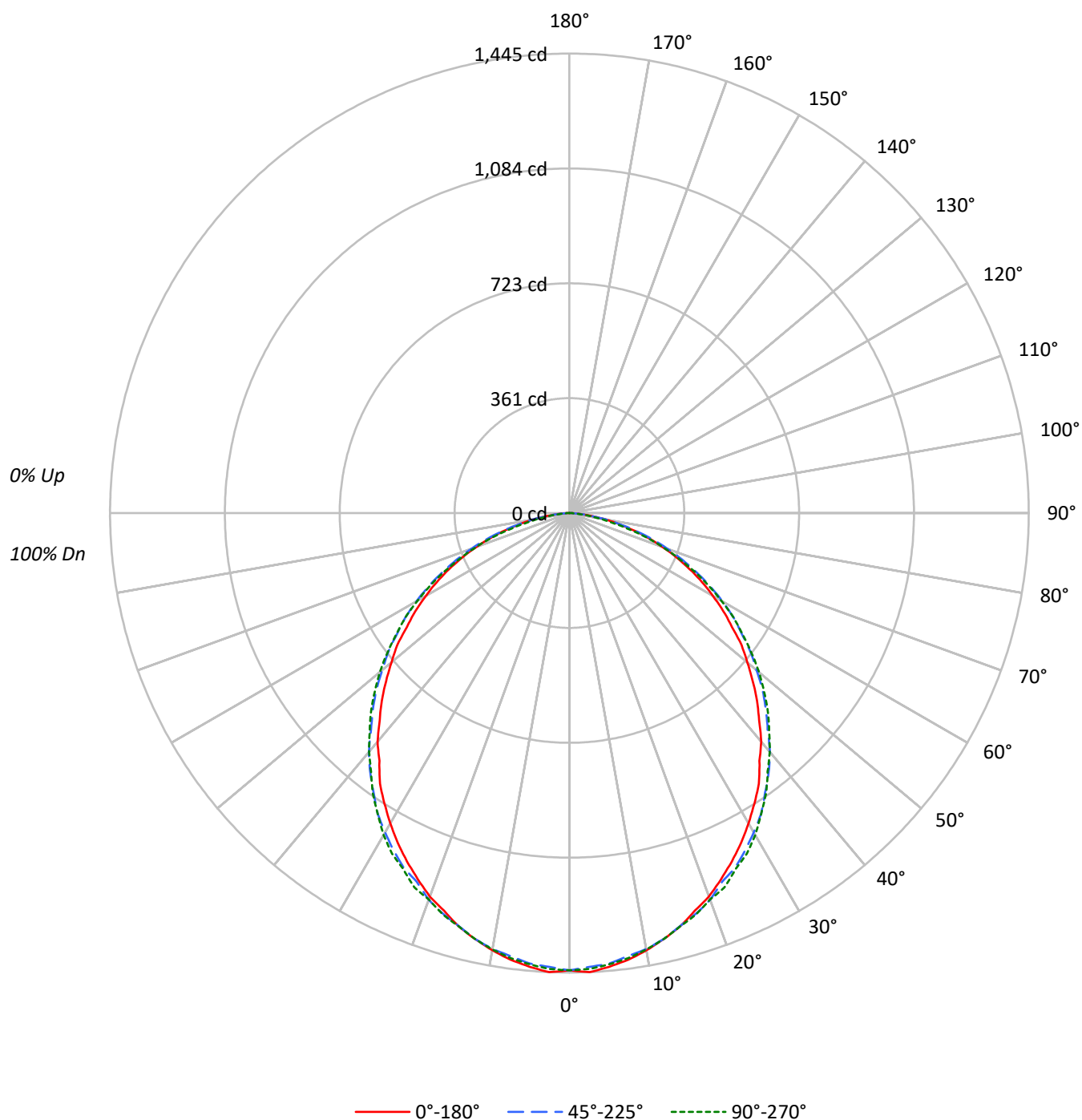
Lumens per Lamp: N/A
Luminaire Lumens: 3693.7 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	90		85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		60
4	83	72	63	57	81	70	62	56	68	61	55		66	59	55		52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		31
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3870	3870	3870
5°	3870	3842	3848
10°	3816	3803	3807
15°	3750	3746	3748
20°	3675	3706	3704
25°	3588	3658	3670
30°	3501	3604	3633
35°	3415	3526	3541
40°	3298	3447	3444
45°	3178	3327	3360
50°	3058	3216	3259
55°	2929	3102	3121
60°	2806	2992	2970
65°	2658	2809	2753
70°	2450	2580	2462
75°	2167	2256	1970
80°	1742	1767	1376
85°	1142	1093	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.7
10°-20°	380.1	10.3
20°-30°	565.8	15.3
30°-40°	666.0	18.0
40°-50°	667.8	18.1
50°-60°	585.6	15.9
60°-70°	428.2	11.6
70°-80°	220.7	6.0
80°-90°	44.3	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°	1081.1	29.3
0°-40°	1747.1	47.3
0°-60°	3000.5	81.2
0°-90°	3693.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1432	1423	1422	1432	1425	136
15°	1346	1348	1344	1353	1345	379
25°	1208	1214	1232	1249	1236	557
35°	1039	1044	1073	1085	1078	647
45°	835	839	874	885	883	644
55°	624	638	661	671	665	560
65°	418	427	441	440	432	413
75°	208	210	217	202	190	221
85°	37	36	35	28	26	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1445.1	1438.0	1428.6	1436.5	1434.9
5°	1432.5	1423.1	1422.3	1431.8	1424.7
7.5°	1416.8	1415.2	1405.8	1416.0	1412.1
10°	1396.4	1394.8	1391.7	1398.7	1393.2
12.5°	1372.0	1370.4	1372.0	1375.9	1372.0
15°	1346.0	1348.4	1344.5	1353.1	1345.3
17.5°	1311.5	1313.8	1321.7	1324.8	1324.0
20°	1283.2	1284.7	1294.2	1306.7	1293.4
22.5°	1246.2	1250.1	1254.8	1277.6	1274.5
25°	1208.5	1214.0	1232.0	1249.3	1236.0
27.5°	1169.1	1174.6	1196.7	1209.2	1207.7
30°	1126.7	1132.2	1159.7	1177.0	1169.1
32.5°	1082.7	1092.1	1122.0	1136.9	1122.0
35°	1039.4	1044.1	1073.2	1085.0	1077.9
37.5°	982.0	1000.1	1029.2	1037.1	1024.5
40°	938.8	939.6	981.2	981.2	980.4
42.5°	883.0	895.5	923.1	938.0	930.1
45°	835.0	838.9	874.3	885.3	883.0
47.5°	782.3	798.0	824.0	836.6	830.3
50°	730.4	741.4	768.2	784.7	778.4
52.5°	682.5	691.1	718.6	728.1	721.8
55°	624.3	638.4	661.2	670.7	665.2
57.5°	574.0	584.2	612.5	615.6	612.5
60°	521.3	533.1	555.9	558.2	551.9
62.5°	471.0	478.8	499.3	500.1	493.0
65°	417.5	426.9	441.1	439.5	432.4
67.5°	364.8	371.1	384.5	379.0	371.1
70°	311.4	316.9	327.9	320.0	312.9
72.5°	259.5	263.4	272.8	261.0	252.4
75°	208.4	209.9	217.0	202.1	189.5
77.5°	158.0	159.6	163.5	148.6	134.4
80°	112.4	112.4	114.0	98.3	88.8
82.5°	70.8	70.8	70.0	58.2	52.7
85°	37.0	36.2	35.4	28.3	25.9
87.5°	13.4	13.4	11.0	10.2	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)