

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: P485939

Luminaire Tested: **ORLG-24-2-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: P485939
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-LD4-3STD-20-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

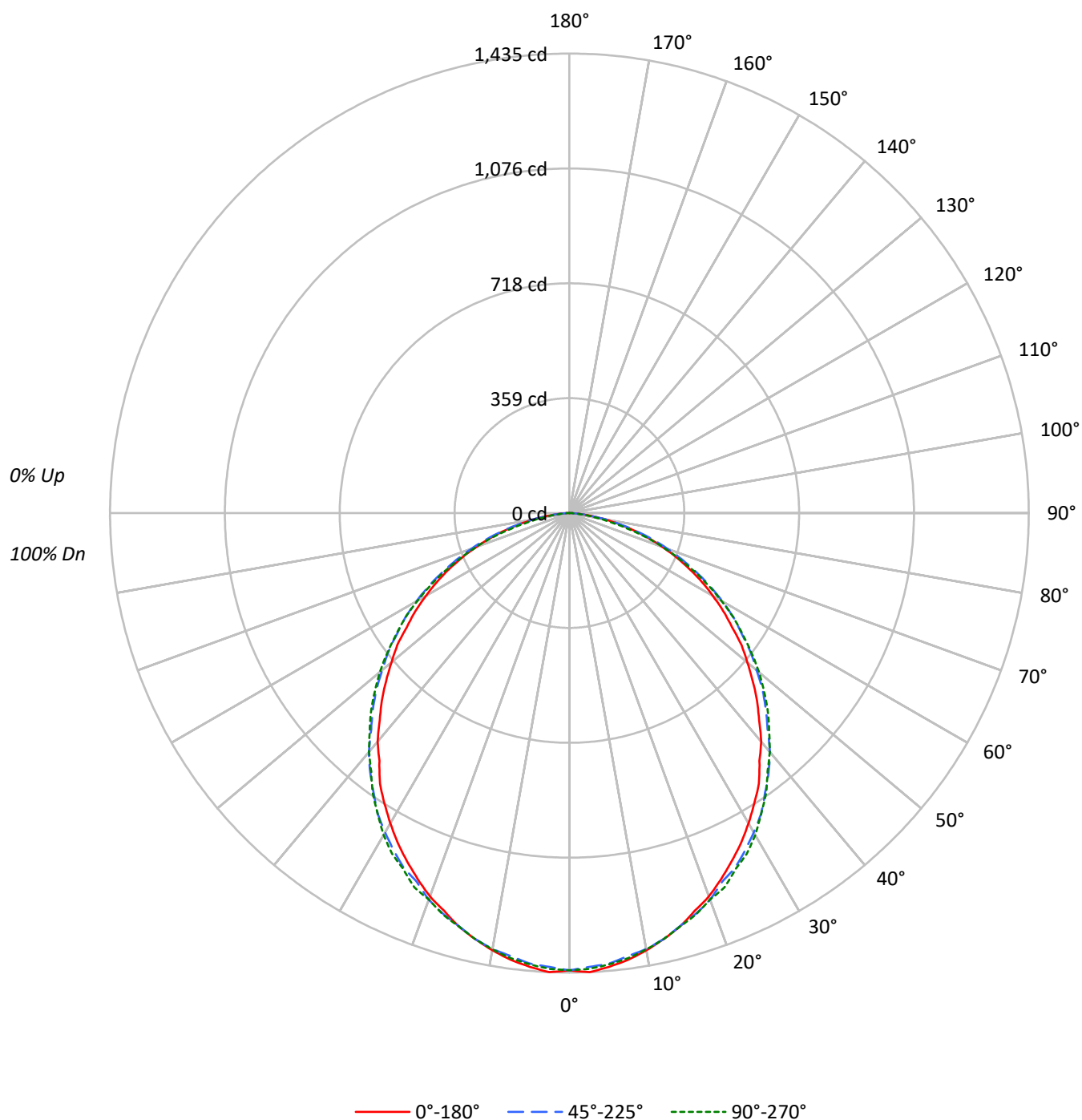
Lumens per Lamp: N/A
Luminaire Lumens: 3668.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3843	3843	3843
5°	3843	3815	3822
10°	3789	3776	3780
15°	3724	3719	3722
20°	3649	3680	3678
25°	3563	3633	3644
30°	3476	3578	3608
35°	3391	3501	3516
40°	3275	3423	3420
45°	3156	3304	3337
50°	3036	3193	3236
55°	2908	3080	3099
60°	2786	2971	2950
65°	2640	2789	2734
70°	2433	2562	2445
75°	2151	2241	1957
80°	1731	1754	1367
85°	1133	1084	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.7
10°-20°	377.4	10.3
20°-30°	561.9	15.3
30°-40°	661.4	18.0
40°-50°	663.2	18.1
50°-60°	581.5	15.9
60°-70°	425.2	11.6
70°-80°	219.2	6.0
80°-90°	44.0	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°	1073.6	29.3
0°-40°	1735.0	47.3
0°-60°	2979.6	81.2
0°-90°	3668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1423	1413	1412	1422	1415	135
15°	1337	1339	1335	1344	1336	376
25°	1200	1206	1224	1241	1227	553
35°	1032	1037	1066	1078	1070	643
45°	829	833	868	879	877	639
55°	620	634	657	666	660	556
65°	415	424	438	436	429	410
75°	207	208	216	201	188	219
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°	1428.0	1428.0	1428.0	1428.0	1428.0
2.5°	1435.1	1428.0	1418.7	1426.5	1424.9
5°	1422.6	1413.2	1412.4	1421.8	1414.8
7.5°	1407.0	1405.4	1396.0	1406.2	1402.3
10°	1386.7	1385.1	1382.0	1389.0	1383.5
12.5°	1362.4	1360.9	1362.4	1366.4	1362.4
15°	1336.7	1339.0	1335.1	1343.7	1335.9
17.5°	1302.3	1304.7	1312.5	1315.6	1314.8
20°	1274.2	1275.8	1285.2	1297.6	1284.4
22.5°	1237.5	1241.4	1246.1	1268.8	1265.6
25°	1200.0	1205.5	1223.5	1240.6	1227.4
27.5°	1161.0	1166.5	1188.3	1200.8	1199.3
30°	1118.8	1124.3	1151.6	1168.8	1161.0
32.5°	1075.1	1084.5	1114.2	1129.0	1114.2
35°	1032.2	1036.9	1065.8	1077.5	1070.4
37.5°	975.2	993.1	1022.0	1029.8	1017.3
40°	932.2	933.0	974.4	974.4	973.6
42.5°	876.8	889.3	916.6	931.5	923.7
45°	829.2	833.1	868.2	879.2	876.8
47.5°	776.9	792.5	818.3	830.7	824.5
50°	725.3	736.3	762.8	779.2	773.0
52.5°	677.7	686.3	713.6	723.0	716.8
55°	619.9	634.0	656.6	666.0	660.5
57.5°	570.0	580.1	608.2	611.3	608.2
60°	517.7	529.4	552.0	554.3	548.1
62.5°	467.7	475.5	495.8	496.6	489.5
65°	414.6	424.0	438.0	436.5	429.4
67.5°	362.3	368.5	381.8	376.3	368.5
70°	309.2	314.7	325.6	317.8	310.7
72.5°	257.7	261.6	270.9	259.2	250.6
75°	206.9	208.5	215.5	200.7	188.2
77.5°	156.9	158.5	162.4	147.6	133.5
80°	111.7	111.7	113.2	97.6	88.2
82.5°	70.3	70.3	69.5	57.8	52.3
85°	36.7	35.9	35.1	28.1	25.8
87.5°	13.3	13.3	10.9	10.2	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)