

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: P485882

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-30-120-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: P485882
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-LD4-2HI-30-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

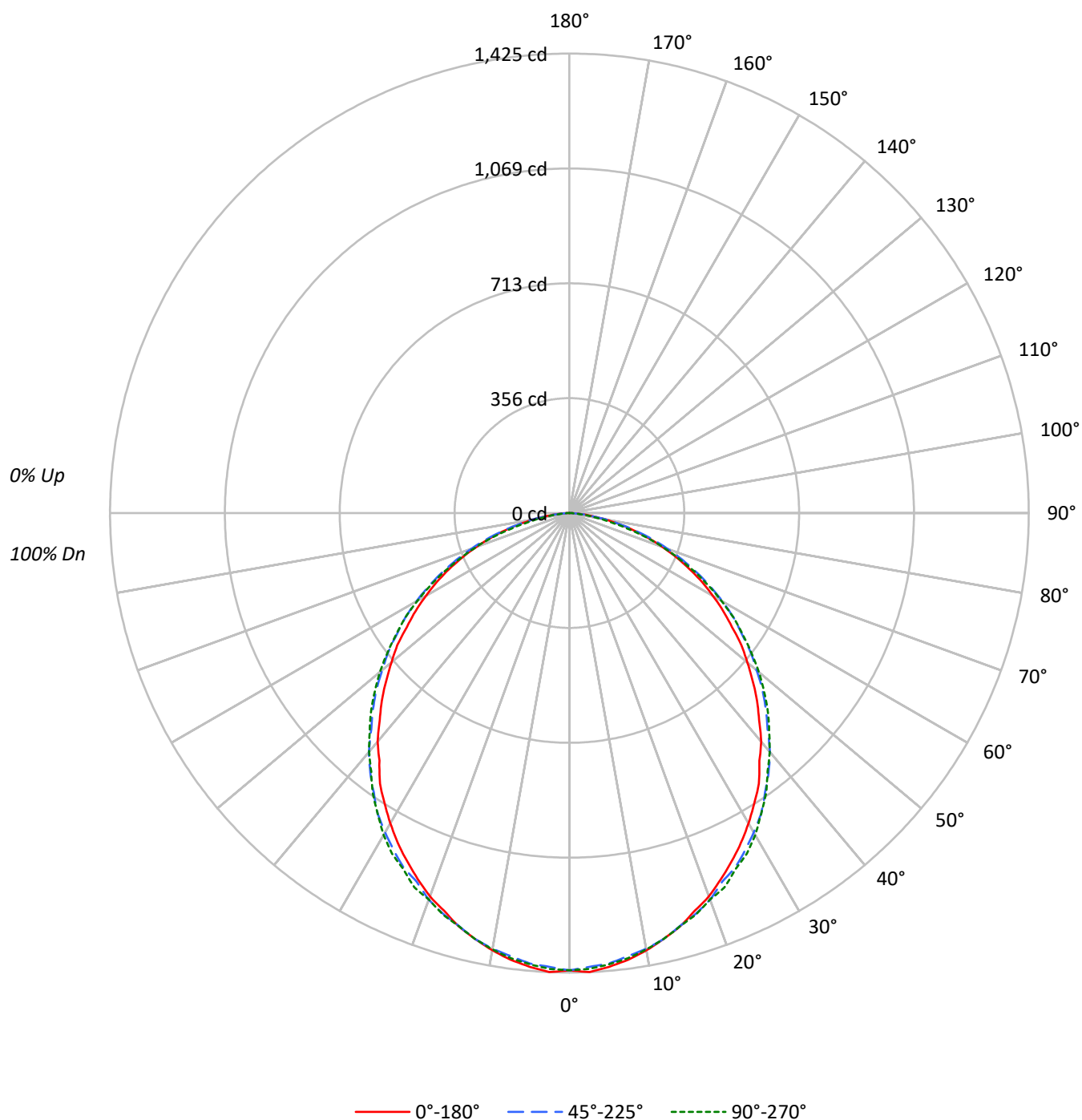
Lumens per Lamp: N/A
Luminaire Lumens: 3642.1 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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
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°	3816	3816	3816
5°	3816	3788	3795
10°	3762	3750	3754
15°	3697	3693	3696
20°	3623	3654	3652
25°	3538	3607	3619
30°	3452	3553	3582
35°	3367	3476	3492
40°	3252	3399	3396
45°	3133	3281	3313
50°	3015	3171	3213
55°	2888	3059	3077
60°	2766	2950	2929
65°	2621	2769	2715
70°	2415	2544	2428
75°	2136	2225	1942
80°	1719	1742	1358
85°	1124	1078	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.7
10°-20°	374.8	10.3
20°-30°	558.0	15.3
30°-40°	656.7	18.0
40°-50°	658.5	18.1
50°-60°	577.4	15.9
60°-70°	422.2	11.6
70°-80°	217.6	6.0
80°-90°	43.7	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°	1066.0	29.3
0°-40°	1722.7	47.3
0°-60°	2958.6	81.2
0°-90°	3642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1412	1403	1402	1412	1405	134
15°	1327	1330	1326	1334	1326	374
25°	1192	1197	1215	1232	1219	549
35°	1025	1030	1058	1070	1063	638
45°	823	827	862	873	871	635
55°	616	630	652	661	656	553
65°	412	421	435	433	426	407
75°	205	207	214	199	187	218
85°	36	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°	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1424.9	1418.0	1408.6	1416.4	1414.9
5°	1412.5	1403.2	1402.4	1411.7	1404.8
7.5°	1397.0	1395.5	1386.2	1396.2	1392.4
10°	1376.9	1375.3	1372.2	1379.2	1373.8
12.5°	1352.8	1351.3	1352.8	1356.7	1352.8
15°	1327.2	1329.6	1325.7	1334.2	1326.5
17.5°	1293.1	1295.5	1303.2	1306.3	1305.5
20°	1265.2	1266.8	1276.1	1288.5	1275.3
22.5°	1228.8	1232.7	1237.3	1259.8	1256.7
25°	1191.6	1197.0	1214.8	1231.9	1218.7
27.5°	1152.8	1158.2	1179.9	1192.4	1190.8
30°	1110.9	1116.4	1143.5	1160.6	1152.8
32.5°	1067.5	1076.8	1106.3	1121.0	1106.3
35°	1024.9	1029.5	1058.2	1069.9	1062.9
37.5°	968.3	986.1	1014.8	1022.6	1010.2
40°	925.7	926.4	967.5	967.5	966.7
42.5°	870.6	883.0	910.2	924.9	917.1
45°	823.3	827.2	862.1	872.9	870.6
47.5°	771.4	786.9	812.5	824.9	818.7
50°	720.2	731.1	757.4	773.7	767.5
52.5°	672.9	681.5	708.6	717.9	711.7
55°	615.6	629.5	652.0	661.3	655.9
57.5°	565.9	576.0	603.9	607.0	603.9
60°	514.0	525.6	548.1	550.4	544.2
62.5°	464.4	472.1	492.3	493.1	486.1
65°	411.7	421.0	434.9	433.4	426.4
67.5°	359.7	365.9	379.1	373.7	365.9
70°	307.0	312.4	323.3	315.5	308.6
72.5°	255.8	259.7	269.0	257.4	248.9
75°	205.4	207.0	214.0	199.2	186.8
77.5°	155.8	157.4	161.3	146.5	132.6
80°	110.9	110.9	112.4	96.9	87.6
82.5°	69.8	69.8	69.0	57.4	51.9
85°	36.4	35.7	34.9	27.9	25.6
87.5°	13.2	13.2	10.9	10.1	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)