

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: P485884

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2HI-35-120-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: P485884
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-35-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

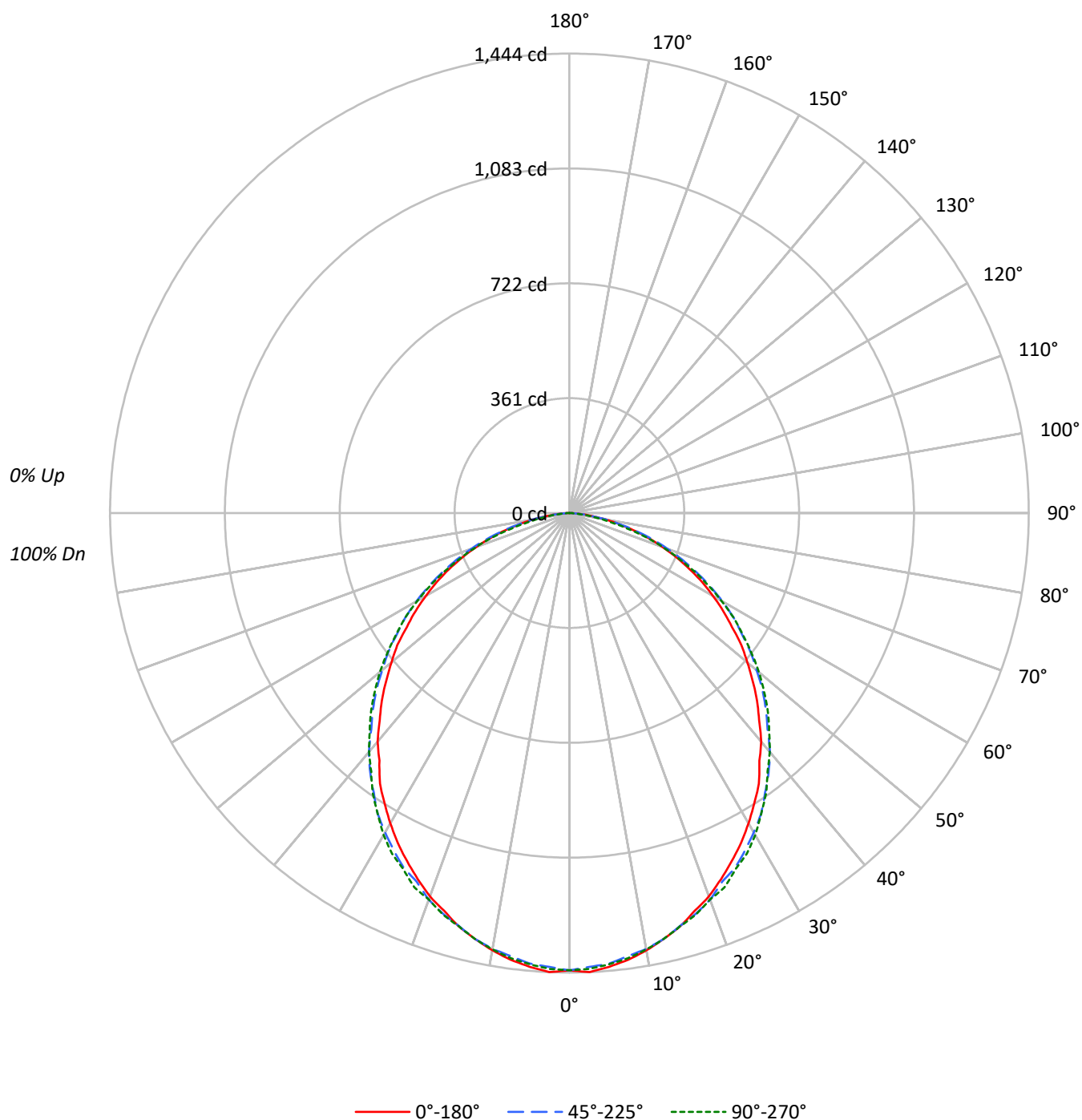
Lumens per Lamp: N/A
Luminaire Lumens: 3690.8 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39		
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3867	3867	3867
5°	3867	3839	3846
10°	3813	3800	3804
15°	3747	3743	3745
20°	3672	3703	3701
25°	3585	3655	3667
30°	3498	3601	3630
35°	3412	3523	3538
40°	3295	3444	3442
45°	3175	3325	3358
50°	3055	3213	3256
55°	2927	3100	3118
60°	2803	2989	2968
65°	2656	2806	2751
70°	2448	2578	2460
75°	2165	2254	1968
80°	1740	1765	1376
85°	1139	1093	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.7
10°-20°	379.8	10.3
20°-30°	565.4	15.3
30°-40°	665.5	18.0
40°-50°	667.3	18.1
50°-60°	585.1	15.9
60°-70°	427.9	11.6
70°-80°	220.5	6.0
80°-90°	44.2	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°	1080.2	29.3
0°-40°	1745.8	47.3
0°-60°	2998.2	81.2
0°-90°	3690.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1431	1422	1421	1431	1424	135
15°	1345	1347	1343	1352	1344	379
25°	1208	1213	1231	1248	1235	556
35°	1039	1043	1072	1084	1077	647
45°	834	838	874	885	882	643
55°	624	638	661	670	665	560
65°	417	427	441	439	432	413
75°	208	210	217	202	189	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°	1436.9	1436.9	1436.9	1436.9	1436.9
2.5°	1444.0	1436.9	1427.5	1435.3	1433.8
5°	1431.4	1422.0	1421.2	1430.6	1423.6
7.5°	1415.7	1414.1	1404.7	1414.9	1411.0
10°	1395.3	1393.7	1390.6	1397.6	1392.1
12.5°	1370.9	1369.3	1370.9	1374.8	1370.9
15°	1345.0	1347.3	1343.4	1352.1	1344.2
17.5°	1310.4	1312.8	1320.6	1323.8	1323.0
20°	1282.1	1283.7	1293.1	1305.7	1292.4
22.5°	1245.2	1249.1	1253.9	1276.6	1273.5
25°	1207.5	1213.0	1231.1	1248.4	1235.0
27.5°	1168.2	1173.7	1195.7	1208.3	1206.7
30°	1125.8	1131.3	1158.8	1176.1	1168.2
32.5°	1081.8	1091.2	1121.1	1136.0	1121.1
35°	1038.6	1043.3	1072.4	1084.2	1077.1
37.5°	981.2	999.3	1028.4	1036.2	1023.7
40°	938.0	938.8	980.5	980.5	979.7
42.5°	882.3	894.8	922.3	937.3	929.4
45°	834.3	838.3	873.6	884.6	882.3
47.5°	781.7	797.4	823.3	835.9	829.6
50°	729.8	740.8	767.6	784.1	777.8
52.5°	681.9	690.6	718.1	727.5	721.2
55°	623.8	637.9	660.7	670.1	664.6
57.5°	573.5	583.7	612.0	615.1	612.0
60°	520.9	532.7	555.4	557.8	551.5
62.5°	470.6	478.4	498.9	499.7	492.6
65°	417.2	426.6	440.7	439.2	432.1
67.5°	364.5	370.8	384.2	378.7	370.8
70°	311.1	316.6	327.6	319.8	312.7
72.5°	259.3	263.2	272.6	260.8	252.2
75°	208.2	209.8	216.8	201.9	189.3
77.5°	157.9	159.5	163.4	148.5	134.3
80°	112.3	112.3	113.9	98.2	88.8
82.5°	70.7	70.7	69.9	58.1	52.6
85°	36.9	36.1	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)