

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: P485849

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-1HI-35-120-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: P485849
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-LD4-1HI-35-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

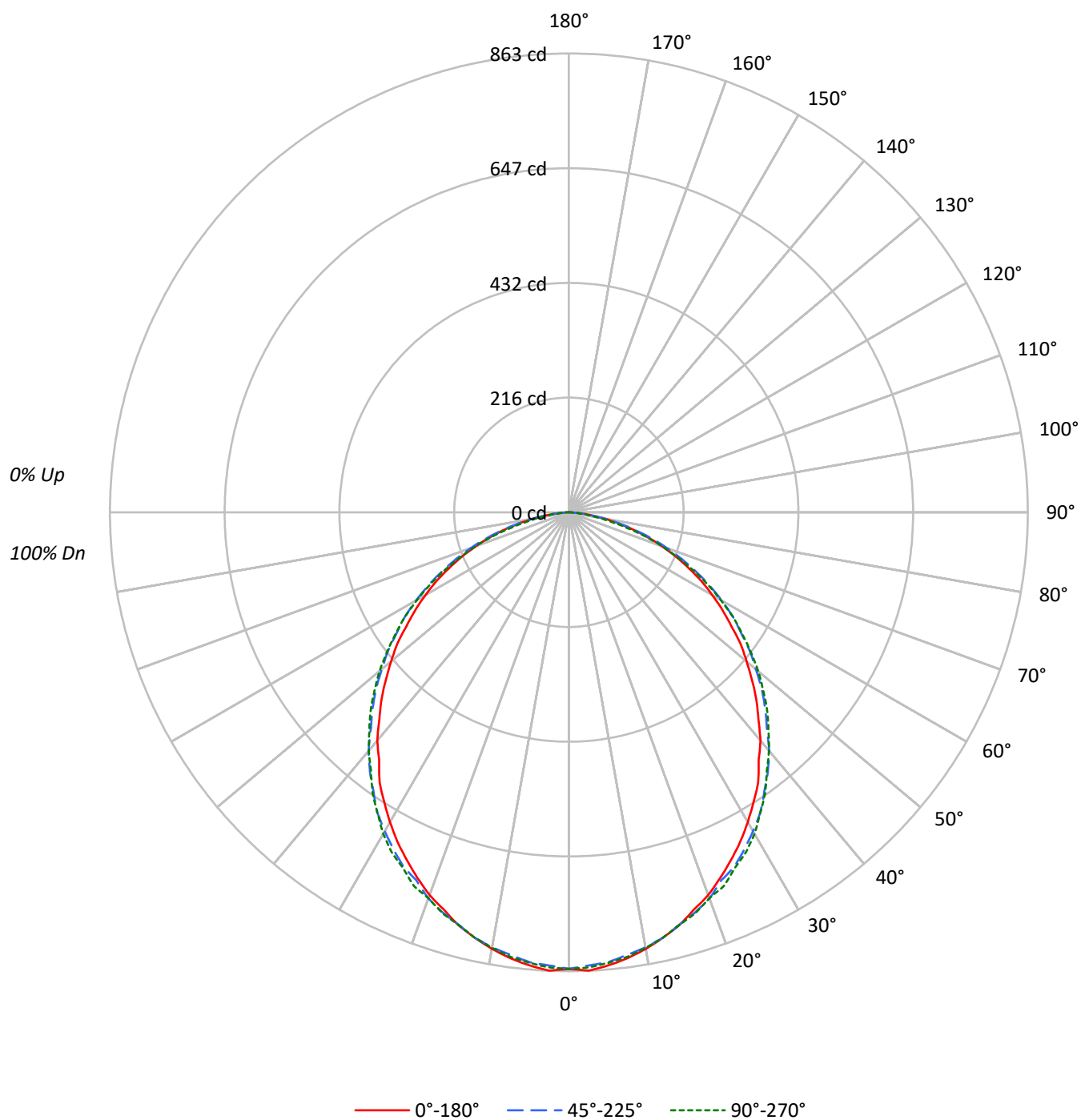
Lumens per Lamp: N/A
Luminaire Lumens: 2205.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22
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°	2310	2310	2310
5°	2310	2294	2298
10°	2278	2270	2273
15°	2239	2236	2238
20°	2194	2213	2211
25°	2142	2184	2191
30°	2090	2151	2169
35°	2039	2105	2114
40°	1969	2058	2056
45°	1897	1987	2006
50°	1826	1920	1945
55°	1749	1852	1863
60°	1675	1786	1773
65°	1587	1677	1644
70°	1463	1541	1470
75°	1293	1347	1176
80°	1040	1055	821
85°	682	651	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.7
10°-20°	226.9	10.3
20°-30°	337.9	15.3
30°-40°	397.7	18.0
40°-50°	398.7	18.1
50°-60°	349.6	15.9
60°-70°	255.7	11.6
70°-80°	131.8	6.0
80°-90°	26.4	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°	645.5	29.3
0°-40°	1043.2	47.3
0°-60°	1791.5	81.2
0°-90°	2205.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2205.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	859	859	859	859	859	
5°	855	850	849	855	851	81
15°	804	805	803	808	803	226
25°	722	725	736	746	738	332
35°	621	623	641	648	644	386
45°	498	501	522	529	527	384
55°	373	381	395	400	397	335
65°	249	255	263	262	258	247
75°	124	125	130	121	113	132
85°	22	22	21	17	16	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	858.6	858.6	858.6	858.6	858.6
2.5°	862.8	858.6	853.0	857.7	856.7
5°	855.3	849.7	849.2	854.9	850.6
7.5°	845.9	845.0	839.4	845.5	843.1
10°	833.7	832.8	830.9	835.1	831.9
12.5°	819.2	818.2	819.2	821.5	819.2
15°	803.7	805.1	802.7	807.9	803.2
17.5°	783.0	784.4	789.1	791.0	790.5
20°	766.1	767.1	772.7	780.2	772.2
22.5°	744.1	746.4	749.2	762.8	761.0
25°	721.5	724.8	735.6	745.9	738.0
27.5°	698.1	701.3	714.5	722.0	721.1
30°	672.7	676.0	692.4	702.8	698.1
32.5°	646.4	652.1	669.9	678.8	669.9
35°	620.6	623.4	640.8	647.8	643.6
37.5°	586.3	597.1	614.5	619.2	611.7
40°	560.5	561.0	585.9	585.9	585.4
42.5°	527.2	534.7	551.1	560.0	555.4
45°	498.5	500.9	522.0	528.6	527.2
47.5°	467.1	476.5	492.0	499.5	495.7
50°	436.1	442.7	458.6	468.5	464.7
52.5°	407.5	412.6	429.1	434.7	430.9
55°	372.7	381.2	394.8	400.4	397.1
57.5°	342.7	348.8	365.7	367.6	365.7
60°	311.2	318.3	331.9	333.3	329.5
62.5°	281.2	285.9	298.1	298.6	294.3
65°	249.3	254.9	263.4	262.4	258.2
67.5°	217.8	221.6	229.6	226.3	221.6
70°	185.9	189.2	195.8	191.1	186.8
72.5°	154.9	157.3	162.9	155.9	150.7
75°	124.4	125.3	129.6	120.6	113.1
77.5°	94.4	95.3	97.6	88.7	80.3
80°	67.1	67.1	68.1	58.7	53.0
82.5°	42.2	42.2	41.8	34.7	31.5
85°	22.1	21.6	21.1	16.9	15.5
87.5°	8.0	8.0	6.6	6.1	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)