

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: P486030

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-6HI-40-120-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: P486030
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-LD4-6HI-40-120-EDD-90
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

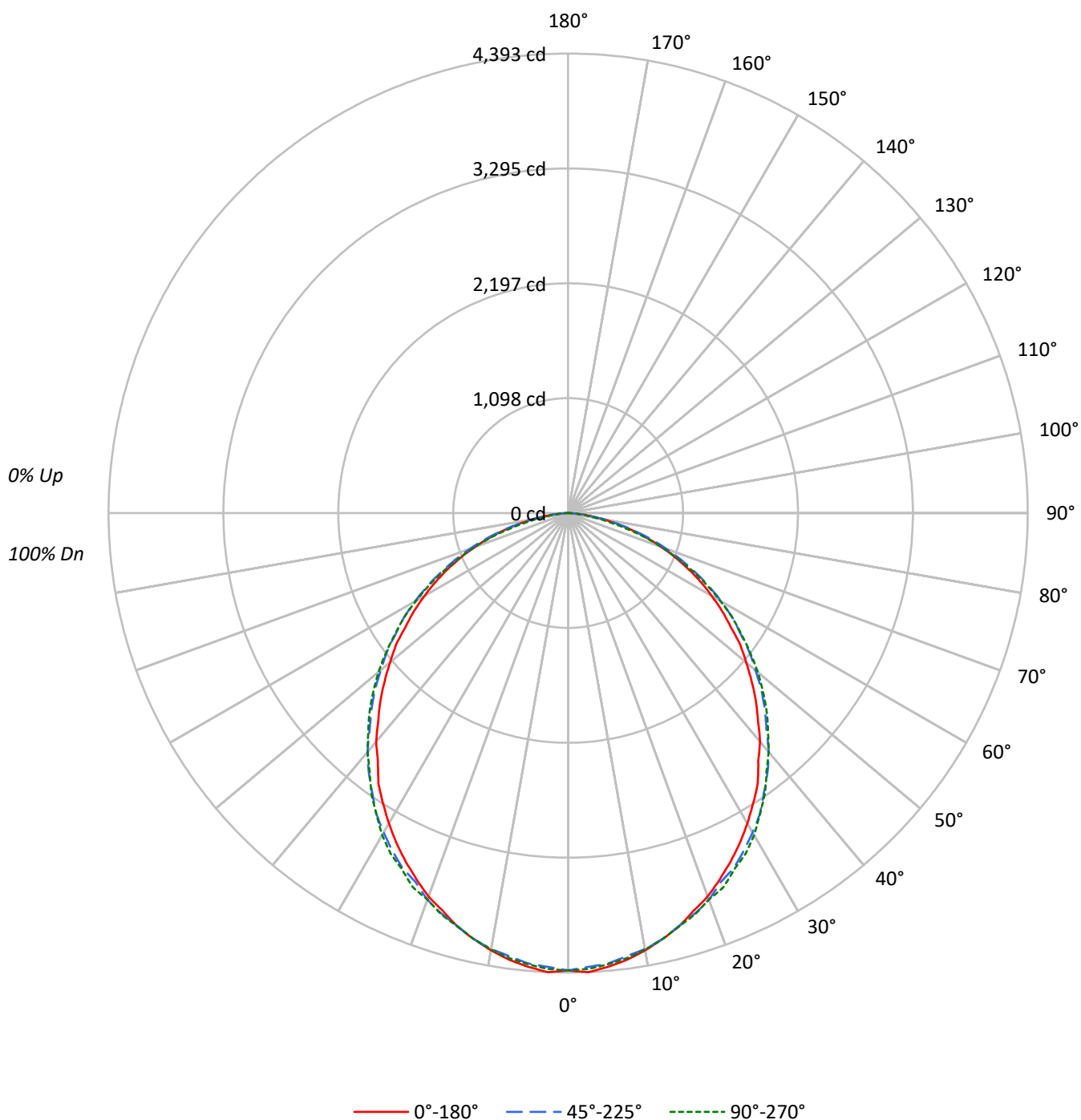
Lumens per Lamp: N/A
Luminaire Lumens: 11229.6 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	11765	11765	11765
5°	11765	11681	11700
10°	11600	11561	11574
15°	11401	11387	11394
20°	11171	11267	11260
25°	10909	11122	11157
30°	10644	10956	11044
35°	10381	10719	10766
40°	10026	10479	10471
45°	9661	10116	10216
50°	9296	9777	9907
55°	8904	9431	9487
60°	8529	9096	9031
65°	8082	8539	8371
70°	7448	7843	7486
75°	6586	6859	5990
80°	5297	5371	4186
85°	3467	3322	2436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	3.7
10°-20°	1155.5	10.3
20°-30°	1720.3	15.3
30°-40°	2024.9	18.0
40°-50°	2030.2	18.1
50°-60°	1780.3	15.9
60°-70°	1301.8	11.6
70°-80°	670.9	6.0
80°-90°	134.6	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°	3286.7	29.3
0°-40°	5311.7	47.3
0°-60°	9122.3	81.2
0°-90°	11229.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11229.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4372	4372	4372	4372	4372	
5°	4355	4326	4324	4353	4331	412
15°	4092	4099	4088	4114	4090	1152
25°	3674	3691	3746	3798	3758	1692
35°	3160	3174	3263	3299	3277	1968
45°	2538	2550	2658	2692	2684	1956
55°	1898	1941	2010	2039	2022	1704
65°	1269	1298	1341	1336	1315	1256
75°	633	638	660	614	576	671
85°	112	110	108	86	79	147
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4371.9	4371.9	4371.9	4371.9	4371.9
2.5°	4393.4	4371.9	4343.3	4367.2	4362.4
5°	4355.2	4326.5	4324.1	4352.8	4331.3
7.5°	4307.4	4302.6	4273.9	4305.0	4293.1
10°	4245.2	4240.5	4230.9	4252.4	4235.7
12.5°	4171.1	4166.4	4171.1	4183.1	4171.1
15°	4092.3	4099.4	4087.5	4113.8	4089.9
17.5°	3987.1	3994.3	4018.2	4027.7	4025.3
20°	3901.0	3905.8	3934.5	3972.7	3932.1
22.5°	3788.7	3800.6	3815.0	3884.3	3874.7
25°	3674.0	3690.7	3745.7	3798.3	3757.6
27.5°	3554.4	3571.2	3638.1	3676.3	3671.6
30°	3425.4	3442.1	3525.8	3578.3	3554.4
32.5°	3291.5	3320.2	3411.0	3456.4	3411.0
35°	3160.0	3174.4	3262.8	3298.7	3277.2
37.5°	2985.5	3040.5	3129.0	3152.9	3114.6
40°	2854.1	2856.5	2983.1	2983.1	2980.8
42.5°	2684.4	2722.6	2806.3	2851.7	2827.8
45°	2538.5	2550.5	2658.1	2691.5	2684.4
47.5°	2378.4	2426.2	2505.1	2543.3	2524.2
50°	2220.6	2254.1	2335.4	2385.6	2366.4
52.5°	2074.8	2101.1	2184.8	2213.5	2194.3
55°	1897.9	1941.0	2010.3	2039.0	2022.2
57.5°	1744.9	1776.0	1862.1	1871.6	1862.1
60°	1584.8	1620.7	1690.0	1697.1	1678.0
62.5°	1431.8	1455.7	1517.9	1520.3	1498.7
65°	1269.3	1298.0	1341.0	1336.2	1314.7
67.5°	1109.1	1128.2	1168.9	1152.1	1128.2
70°	946.6	963.3	996.8	972.9	951.4
72.5°	788.8	800.8	829.4	793.6	767.3
75°	633.4	638.2	659.7	614.3	576.1
77.5°	480.5	485.2	497.2	451.8	408.7
80°	341.8	341.8	346.6	298.8	270.1
82.5°	215.1	215.1	212.7	176.9	160.2
85°	112.3	110.0	107.6	86.1	78.9
87.5°	40.6	40.6	33.5	31.1	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)