

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: P487353

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-50-120-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: P487353
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-24-4-INS-A125-LD4-6STD-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

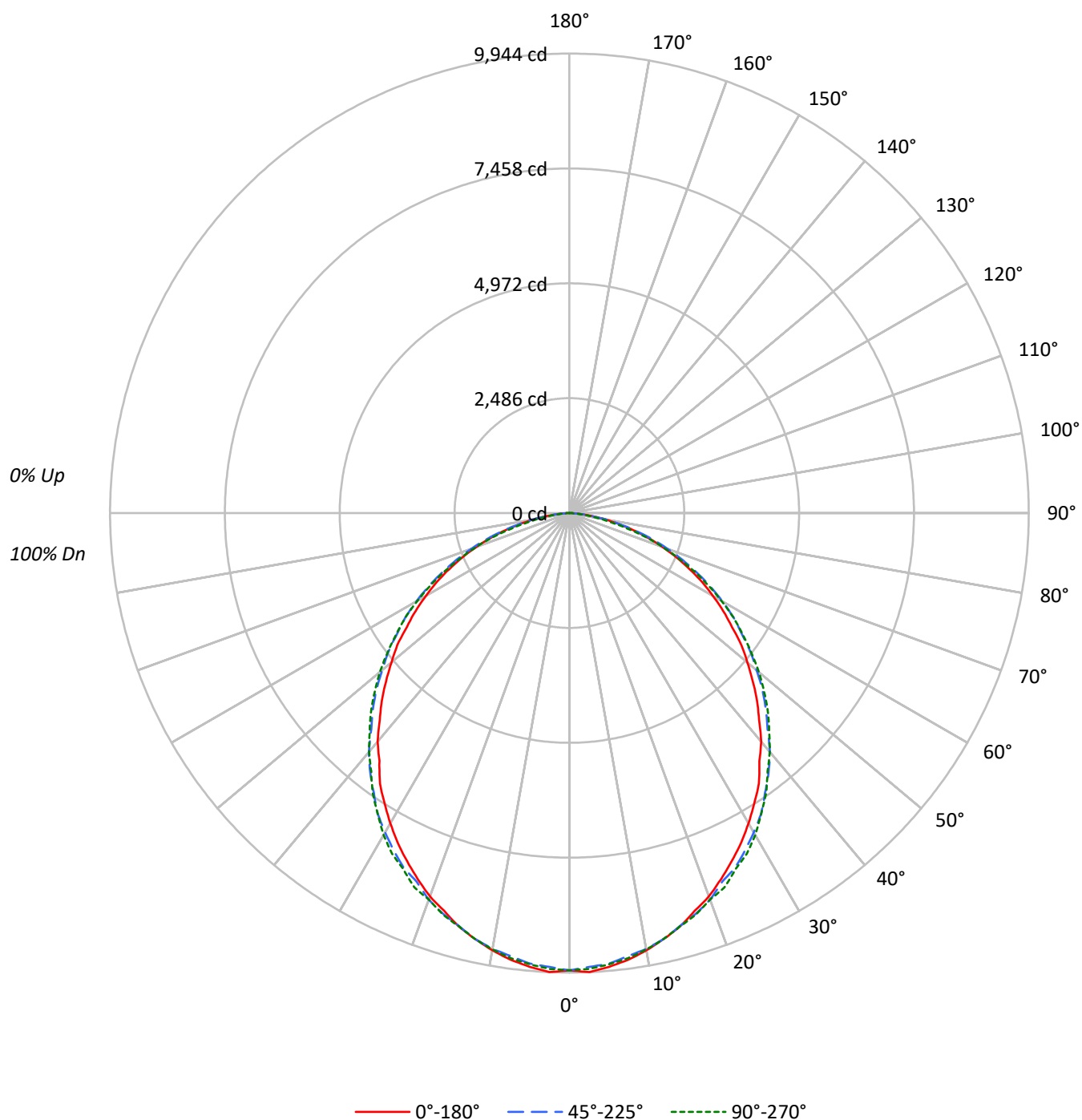
Lumens per Lamp: N/A
Luminaire Lumens: 25416.5 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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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CATALOG NUMBER: ORLG-24-4-INS-A125-LD4-6STD-50-120-EDD

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	50	30	10
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°	13314	13314	13314
5°	13314	13219	13240
10°	13128	13083	13098
15°	12902	12887	12894
20°	12642	12751	12743
25°	12345	12586	12626
30°	12045	12398	12499
35°	11748	12130	12183
40°	11346	11859	11850
45°	10933	11447	11561
50°	10521	11064	11211
55°	10077	10673	10737
60°	9652	10293	10220
65°	9146	9663	9473
70°	8428	8875	8471
75°	7453	7763	6778
80°	5995	6079	4737
85°	3926	3759	2756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.1	3.7
10°-20°	2615.3	10.3
20°-30°	3893.7	15.3
30°-40°	4583.1	18.0
40°-50°	4595.1	18.1
50°-60°	4029.5	15.9
60°-70°	2946.5	11.6
70°-80°	1518.5	6.0
80°-90°	304.7	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°	7439.1	29.3
0°-40°	12022.1	47.3
0°-60°	20646.8	81.2
0°-90°	25416.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25416.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9895	9895	9895	9895	9895	
5°	9857	9792	9787	9852	9803	933
15°	9262	9278	9251	9311	9257	2607
25°	8315	8353	8478	8597	8505	3830
35°	7152	7185	7385	7466	7417	4454
45°	5746	5773	6016	6092	6076	4428
55°	4296	4393	4550	4615	4577	3856
65°	2873	2938	3035	3024	2976	2842
75°	1434	1444	1493	1390	1304	1519
85°	254	249	244	195	178	332
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9895.2	9895.2	9895.2	9895.2	9895.2
2.5°	9943.9	9895.2	9830.3	9884.4	9873.6
5°	9857.3	9792.4	9787.0	9851.9	9803.2
7.5°	9749.1	9738.3	9673.4	9743.7	9716.7
10°	9608.5	9597.7	9576.0	9624.7	9586.8
12.5°	9440.8	9429.9	9440.8	9467.8	9440.8
15°	9262.2	9278.5	9251.4	9310.9	9256.8
17.5°	9024.2	9040.4	9094.5	9116.1	9110.7
20°	8829.4	8840.2	8905.2	8991.7	8899.7
22.5°	8575.1	8602.2	8634.6	8791.5	8769.9
25°	8315.4	8353.3	8477.7	8596.8	8504.8
27.5°	8044.9	8082.8	8234.3	8320.9	8310.0
30°	7752.8	7790.7	7980.0	8099.0	8044.9
32.5°	7449.8	7514.7	7720.3	7823.1	7720.3
35°	7152.3	7184.7	7384.9	7466.0	7417.4
37.5°	6757.3	6881.7	7081.9	7136.0	7049.5
40°	6459.8	6465.2	6751.9	6751.9	6746.5
42.5°	6075.6	6162.2	6351.5	6454.3	6400.2
45°	5745.6	5772.7	6016.1	6091.9	6075.6
47.5°	5383.1	5491.3	5669.9	5756.4	5713.1
50°	5026.1	5101.8	5285.7	5399.4	5356.1
52.5°	4696.0	4755.5	4944.9	5009.8	4966.5
55°	4295.7	4393.1	4550.0	4614.9	4577.0
57.5°	3949.4	4019.8	4214.5	4236.2	4214.5
60°	3586.9	3668.1	3825.0	3841.2	3797.9
62.5°	3240.7	3294.8	3435.5	3440.9	3392.2
65°	2872.8	2937.7	3035.1	3024.3	2975.6
67.5°	2510.3	2553.6	2645.6	2607.7	2553.6
70°	2142.4	2180.3	2256.0	2201.9	2153.3
72.5°	1785.4	1812.4	1877.3	1796.2	1736.7
75°	1433.7	1444.5	1493.2	1390.4	1303.9
77.5°	1087.4	1098.3	1125.3	1022.5	925.1
80°	773.7	773.7	784.5	676.3	611.3
82.5°	486.9	486.9	481.5	400.4	362.5
85°	254.3	248.9	243.5	194.8	178.5
87.5°	92.0	92.0	75.7	70.3	75.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)