

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: P487181

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-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: P487181
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-LD4-2HI-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

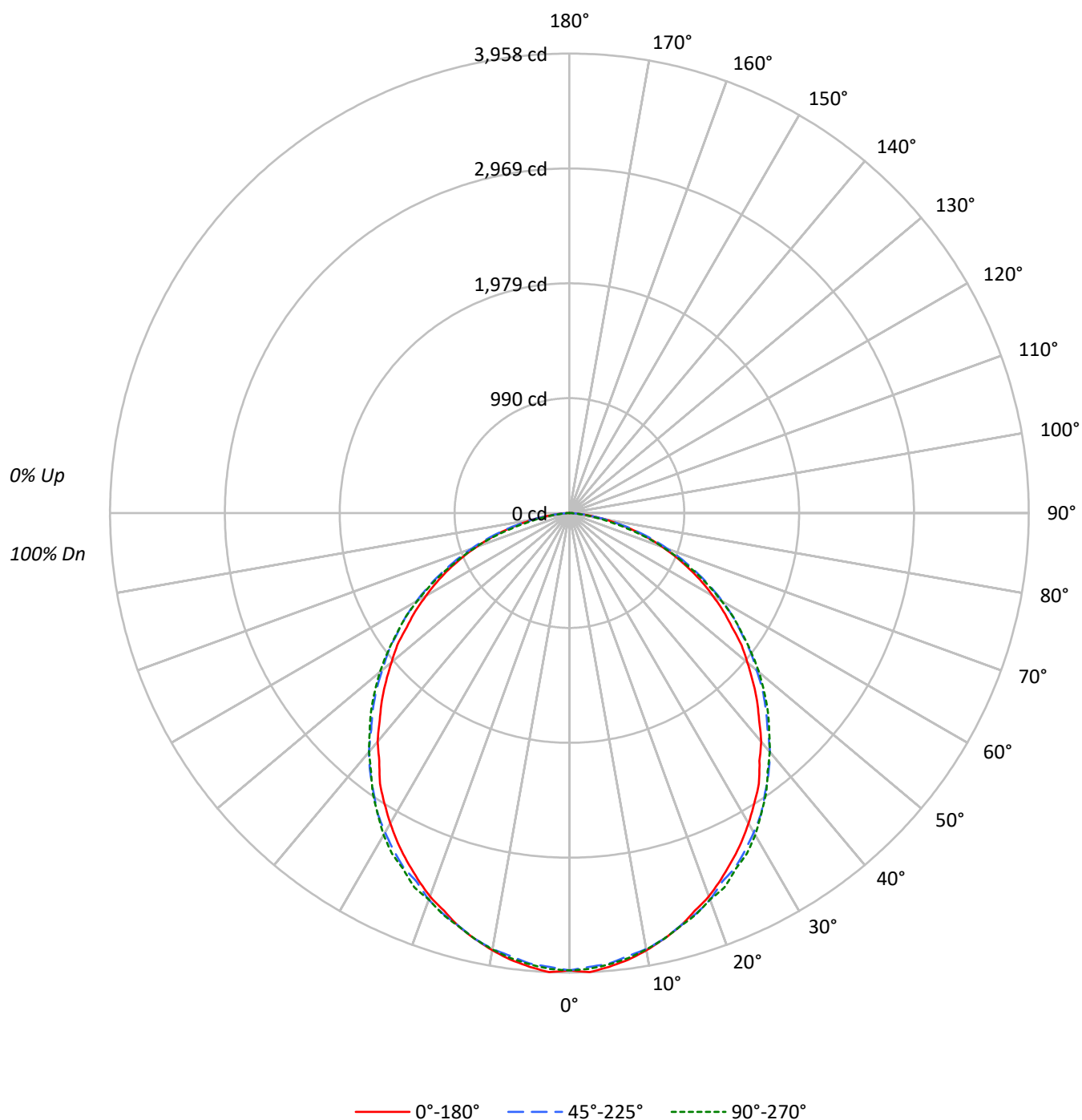
Lumens per Lamp: N/A
Luminaire Lumens: 10117.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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-LD4-2HI-35-120-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
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°	5300	5300	5300
5°	5300	5262	5270
10°	5225	5208	5214
15°	5136	5130	5133
20°	5032	5076	5072
25°	4914	5010	5026
30°	4795	4935	4975
35°	4676	4828	4850
40°	4516	4721	4717
45°	4352	4557	4602
50°	4188	4404	4463
55°	4011	4248	4274
60°	3842	4097	4068
65°	3641	3846	3771
70°	3355	3533	3372
75°	2967	3090	2698
80°	2386	2420	1886
85°	1562	1496	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	3.7
10°-20°	1041.0	10.3
20°-30°	1549.9	15.3
30°-40°	1824.3	18.0
40°-50°	1829.1	18.1
50°-60°	1604.0	15.9
60°-70°	1172.9	11.6
70°-80°	604.5	6.0
80°-90°	121.3	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°	2961.2	29.3
0°-40°	4785.5	47.3
0°-60°	8218.6	81.2
0°-90°	10117.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10117.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3939	3939	3939	3939	3939	
5°	3924	3898	3896	3922	3902	371
15°	3687	3693	3683	3706	3685	1038
25°	3310	3325	3375	3422	3385	1525
35°	2847	2860	2940	2972	2952	1773
45°	2287	2298	2395	2425	2418	1763
55°	1710	1749	1811	1837	1822	1535
65°	1144	1169	1208	1204	1184	1131
75°	571	575	594	554	519	605
85°	101	99	97	78	71	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3938.9	3938.9	3938.9	3938.9	3938.9
2.5°	3958.2	3938.9	3913.0	3934.5	3930.2
5°	3923.8	3897.9	3895.8	3921.6	3902.2
7.5°	3880.7	3876.4	3850.6	3878.6	3867.8
10°	3824.7	3820.4	3811.8	3831.2	3816.1
12.5°	3758.0	3753.6	3758.0	3768.7	3758.0
15°	3686.9	3693.3	3682.6	3706.3	3684.7
17.5°	3592.1	3598.6	3620.1	3628.7	3626.6
20°	3514.6	3518.9	3544.8	3579.2	3542.6
22.5°	3413.4	3424.2	3437.1	3499.5	3490.9
25°	3310.0	3325.1	3374.6	3422.0	3385.4
27.5°	3202.3	3217.4	3277.7	3312.2	3307.9
30°	3086.0	3101.1	3176.5	3223.9	3202.3
32.5°	2965.4	2991.3	3073.1	3114.0	3073.1
35°	2847.0	2859.9	2939.6	2971.9	2952.5
37.5°	2689.8	2739.3	2819.0	2840.5	2806.1
40°	2571.3	2573.5	2687.6	2687.6	2685.5
42.5°	2418.4	2452.9	2528.3	2569.2	2547.7
45°	2287.1	2297.8	2394.8	2424.9	2418.4
47.5°	2142.8	2185.9	2256.9	2291.4	2274.2
50°	2000.7	2030.8	2104.0	2149.2	2132.0
52.5°	1869.3	1893.0	1968.3	1994.2	1977.0
55°	1709.9	1748.7	1811.1	1837.0	1821.9
57.5°	1572.1	1600.1	1677.6	1686.2	1677.6
60°	1427.8	1460.1	1522.6	1529.0	1511.8
62.5°	1290.0	1311.5	1367.5	1369.7	1350.3
65°	1143.5	1169.4	1208.1	1203.8	1184.5
67.5°	999.2	1016.5	1053.1	1038.0	1016.5
70°	852.8	867.9	898.0	876.5	857.1
72.5°	710.7	721.4	747.3	715.0	691.3
75°	570.7	575.0	594.4	553.5	519.0
77.5°	432.9	437.2	447.9	407.0	368.3
80°	308.0	308.0	312.3	269.2	243.4
82.5°	193.8	193.8	191.7	159.4	144.3
85°	101.2	99.1	96.9	77.5	71.1
87.5°	36.6	36.6	30.1	28.0	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)