

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: P487182

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-2HI-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: P487182
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-40-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

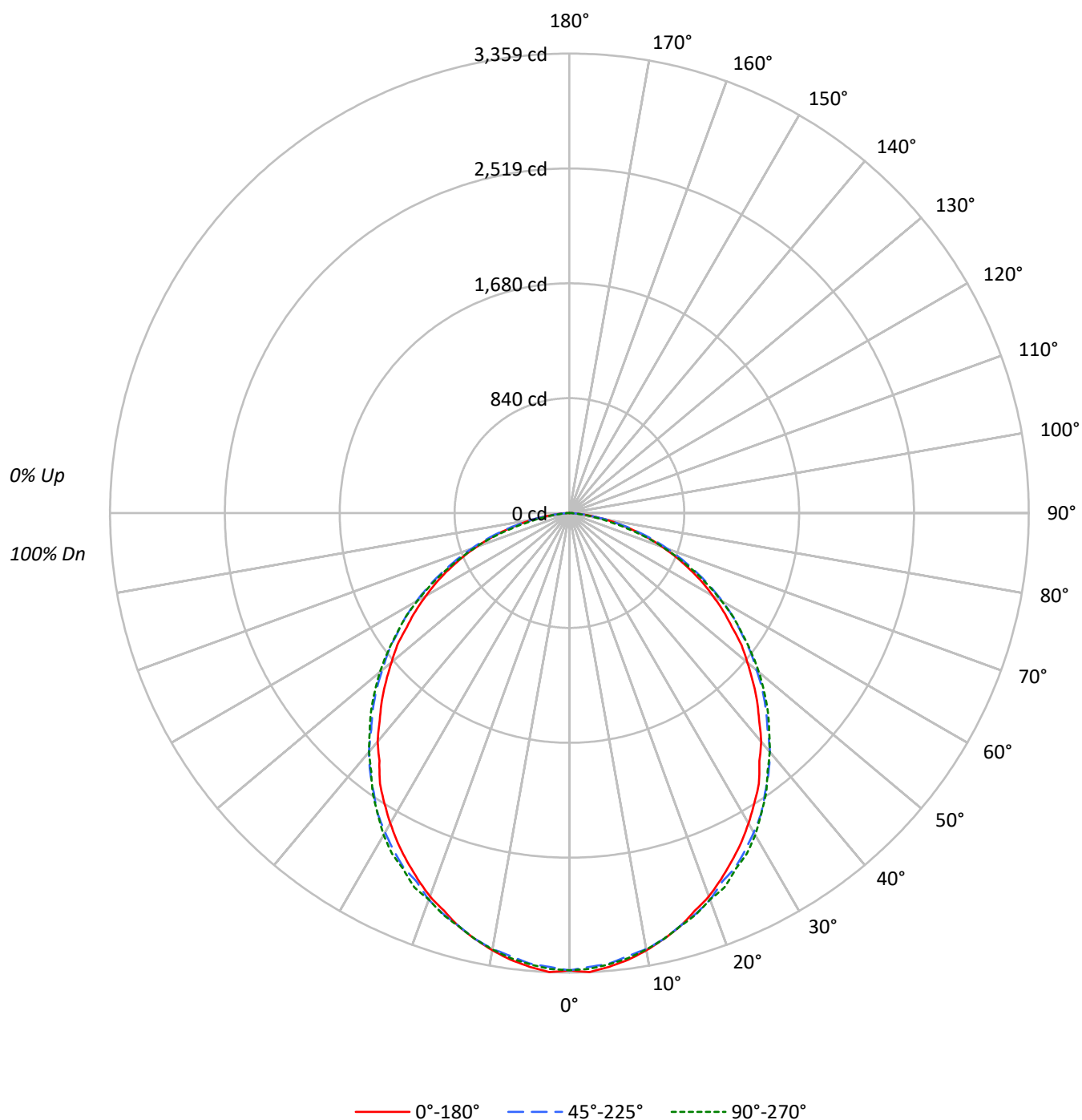
Lumens per Lamp: N/A
Luminaire Lumens: 8585.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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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
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°	4497	4497	4497
5°	4497	4465	4473
10°	4435	4420	4425
15°	4358	4353	4356
20°	4271	4307	4305
25°	4170	4252	4265
30°	4069	4188	4222
35°	3969	4097	4116
40°	3833	4006	4003
45°	3693	3867	3905
50°	3554	3737	3787
55°	3404	3605	3627
60°	3261	3477	3453
65°	3089	3264	3200
70°	2847	2998	2862
75°	2518	2622	2289
80°	2025	2053	1600
85°	1326	1269	931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	3.7
10°-20°	883.5	10.3
20°-30°	1315.3	15.3
30°-40°	1548.2	18.0
40°-50°	1552.3	18.1
50°-60°	1361.2	15.9
60°-70°	995.3	11.6
70°-80°	513.0	6.0
80°-90°	102.9	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°	2512.9	29.3
0°-40°	4061.1	47.3
0°-60°	6974.6	81.2
0°-90°	8585.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8585.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3343	3343	3343	3343	3343	
5°	3330	3308	3306	3328	3312	315
15°	3129	3134	3125	3145	3127	881
25°	2809	2822	2864	2904	2873	1294
35°	2416	2427	2495	2522	2506	1505
45°	1941	1950	2032	2058	2052	1496
55°	1451	1484	1537	1559	1546	1303
65°	970	992	1025	1022	1005	960
75°	484	488	504	470	440	513
85°	86	84	82	66	60	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3342.6	3342.6	3342.6	3342.6	3342.6
2.5°	3359.1	3342.6	3320.7	3339.0	3335.3
5°	3329.9	3307.9	3306.1	3328.0	3311.6
7.5°	3293.3	3289.6	3267.7	3291.5	3282.3
10°	3245.8	3242.1	3234.8	3251.3	3238.5
12.5°	3189.1	3185.5	3189.1	3198.3	3189.1
15°	3128.8	3134.3	3125.2	3145.3	3127.0
17.5°	3048.4	3053.9	3072.2	3079.5	3077.6
20°	2982.6	2986.3	3008.2	3037.4	3006.4
22.5°	2896.7	2905.9	2916.8	2969.8	2962.5
25°	2809.0	2821.8	2863.8	2904.0	2873.0
27.5°	2717.6	2730.4	2781.6	2810.8	2807.2
30°	2618.9	2631.7	2695.7	2735.9	2717.6
32.5°	2516.6	2538.5	2608.0	2642.7	2608.0
35°	2416.1	2427.0	2494.6	2522.1	2505.6
37.5°	2282.6	2324.7	2392.3	2410.6	2381.3
40°	2182.1	2184.0	2280.8	2280.8	2279.0
42.5°	2052.4	2081.6	2145.6	2180.3	2162.0
45°	1940.9	1950.0	2032.3	2057.9	2052.4
47.5°	1818.4	1855.0	1915.3	1944.5	1929.9
50°	1697.8	1723.4	1785.5	1823.9	1809.3
52.5°	1586.3	1606.4	1670.4	1692.3	1677.7
55°	1451.1	1484.0	1537.0	1558.9	1546.1
57.5°	1334.1	1357.9	1423.7	1431.0	1423.7
60°	1211.7	1239.1	1292.1	1297.6	1283.0
62.5°	1094.7	1113.0	1160.5	1162.3	1145.9
65°	970.4	992.4	1025.3	1021.6	1005.2
67.5°	848.0	862.6	893.7	880.9	862.6
70°	723.7	736.5	762.1	743.8	727.4
72.5°	603.1	612.2	634.2	606.8	586.7
75°	484.3	488.0	504.4	469.7	440.4
77.5°	367.3	371.0	380.1	345.4	312.5
80°	261.3	261.3	265.0	228.4	206.5
82.5°	164.5	164.5	162.7	135.2	122.4
85°	85.9	84.1	82.2	65.8	60.3
87.5°	31.1	31.1	25.6	23.8	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)