

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: P487253

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-4HI-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: P487253
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-LD4-4HI-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

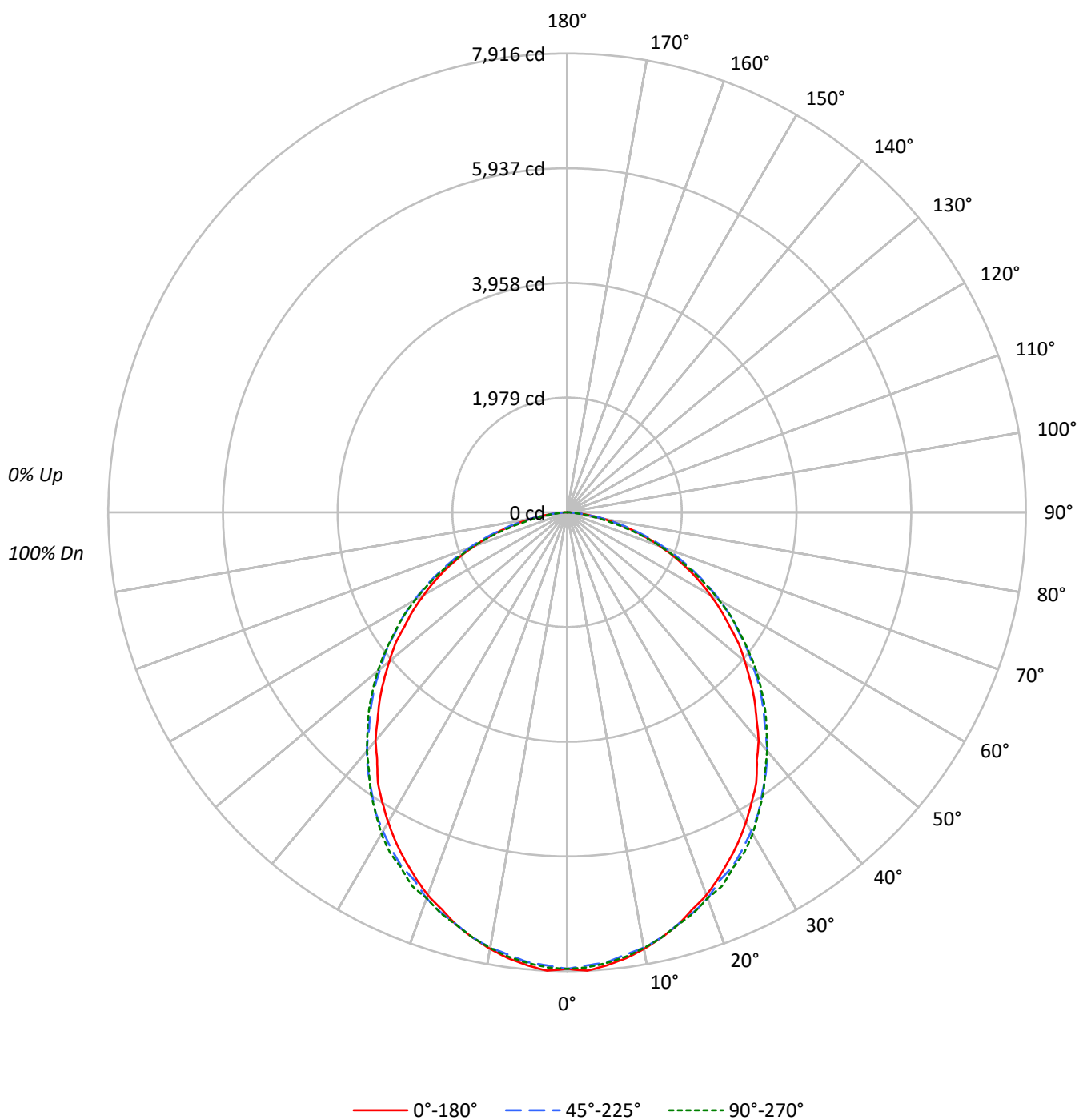
Lumens per Lamp: N/A
Luminaire Lumens: 20234.4 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	10599	10599	10599
5°	10599	10524	10541
10°	10451	10416	10427
15°	10271	10259	10265
20°	10065	10151	10145
25°	9828	10020	10052
30°	9589	9870	9951
35°	9353	9657	9699
40°	9033	9441	9434
45°	8704	9114	9204
50°	8376	8808	8925
55°	8022	8497	8548
60°	7684	8194	8136
65°	7281	7693	7542
70°	6710	7066	6744
75°	5934	6180	5396
80°	4772	4839	3771
85°	3125	2992	2194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.5	3.7
10°-20°	2082.1	10.3
20°-30°	3099.8	15.3
30°-40°	3648.7	18.0
40°-50°	3658.3	18.1
50°-60°	3208.0	15.9
60°-70°	2345.8	11.6
70°-80°	1208.9	6.0
80°-90°	242.5	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°	5922.3	29.3
0°-40°	9571.0	47.3
0°-60°	16437.2	81.2
0°-90°	20234.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20234.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7878	7878	7878	7878	7878	
5°	7848	7796	7792	7843	7804	743
15°	7374	7387	7365	7412	7370	2075
25°	6620	6650	6749	6844	6771	3049
35°	5694	5720	5879	5944	5905	3546
45°	4574	4596	4790	4850	4837	3525
55°	3420	3497	3622	3674	3644	3070
65°	2287	2339	2416	2408	2369	2262
75°	1141	1150	1189	1107	1038	1209
85°	202	198	194	155	142	264
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7877.7	7877.7	7877.7	7877.7	7877.7
2.5°	7916.5	7877.7	7826.0	7869.1	7860.5
5°	7847.6	7795.9	7791.6	7843.2	7804.5
7.5°	7761.4	7752.8	7701.1	7757.1	7735.6
10°	7649.4	7640.8	7623.6	7662.3	7632.2
12.5°	7515.9	7507.3	7515.9	7537.4	7515.9
15°	7373.8	7386.7	7365.2	7412.5	7369.5
17.5°	7184.3	7197.2	7240.3	7257.5	7253.2
20°	7029.2	7037.8	7089.5	7158.4	7085.2
22.5°	6826.8	6848.3	6874.1	6999.1	6981.8
25°	6620.0	6650.2	6749.2	6844.0	6770.8
27.5°	6404.7	6434.8	6555.4	6624.3	6615.7
30°	6172.1	6202.2	6353.0	6447.7	6404.7
32.5°	5930.9	5982.6	6146.2	6228.1	6146.2
35°	5694.0	5719.8	5879.2	5943.8	5905.0
37.5°	5379.6	5478.6	5638.0	5681.1	5612.2
40°	5142.7	5147.0	5375.3	5375.3	5371.0
42.5°	4836.9	4905.8	5056.5	5138.4	5095.3
45°	4574.2	4595.7	4789.5	4849.8	4836.9
47.5°	4285.6	4371.7	4513.9	4582.8	4548.3
50°	4001.3	4061.6	4208.0	4298.5	4264.0
52.5°	3738.6	3786.0	3936.7	3988.4	3953.9
55°	3419.8	3497.4	3622.3	3674.0	3643.8
57.5°	3144.2	3200.2	3355.2	3372.5	3355.2
60°	2855.6	2920.2	3045.1	3058.0	3023.6
62.5°	2580.0	2623.0	2735.0	2739.3	2700.6
65°	2287.1	2338.8	2416.3	2407.7	2368.9
67.5°	1998.5	2033.0	2106.2	2076.0	2033.0
70°	1705.6	1735.8	1796.1	1753.0	1714.2
72.5°	1421.3	1442.9	1494.6	1430.0	1382.6
75°	1141.4	1150.0	1188.8	1106.9	1038.0
77.5°	865.7	874.3	895.9	814.0	736.5
80°	615.9	615.9	624.5	538.4	486.7
82.5°	387.6	387.6	383.3	318.7	288.6
85°	202.4	198.1	193.8	155.1	142.1
87.5°	73.2	73.2	60.3	56.0	60.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)