

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: P487307

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-20-120-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: P487307
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-LD4-5STD-20-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

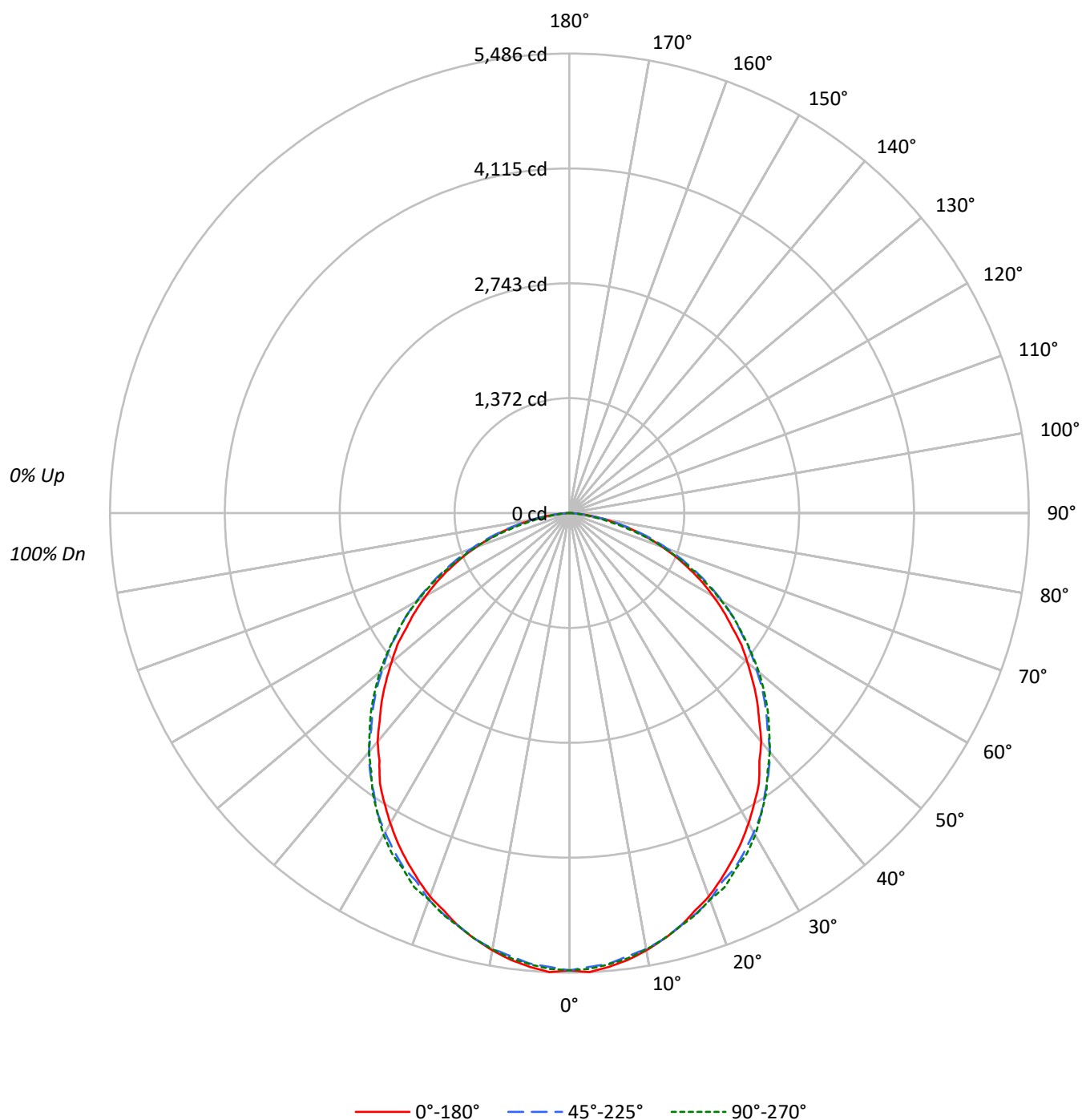
Lumens per Lamp: N/A
Luminaire Lumens: 14022.2 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	7345	7345	7345
5°	7345	7293	7305
10°	7242	7218	7226
15°	7118	7110	7114
20°	6975	7034	7030
25°	6811	6944	6966
30°	6645	6840	6896
35°	6481	6692	6721
40°	6259	6543	6537
45°	6032	6316	6378
50°	5804	6104	6185
55°	5559	5888	5923
60°	5325	5679	5638
65°	5046	5331	5226
70°	4650	4897	4673
75°	4112	4283	3739
80°	3307	3353	2614
85°	2166	2073	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	3.7
10°-20°	1442.8	10.3
20°-30°	2148.1	15.3
30°-40°	2528.5	18.0
40°-50°	2535.1	18.1
50°-60°	2223.1	15.9
60°-70°	1625.6	11.6
70°-80°	837.7	6.0
80°-90°	168.1	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°	4104.1	29.3
0°-40°	6632.6	47.3
0°-60°	11390.8	81.2
0°-90°	14022.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14022.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5459	5459	5459	5459	5459	
5°	5438	5402	5400	5435	5408	515
15°	5110	5119	5104	5137	5107	1438
25°	4588	4608	4677	4743	4692	2113
35°	3946	3964	4074	4119	4092	2457
45°	3170	3185	3319	3361	3352	2443
55°	2370	2424	2510	2546	2525	2127
65°	1585	1621	1674	1668	1642	1568
75°	791	797	824	767	719	838
85°	140	137	134	108	98	183
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5459.2	5459.2	5459.2	5459.2	5459.2
2.5°	5486.0	5459.2	5423.3	5453.2	5447.2
5°	5438.3	5402.4	5399.5	5435.3	5408.4
7.5°	5378.6	5372.6	5336.8	5375.6	5360.7
10°	5301.0	5295.0	5283.1	5309.9	5289.0
12.5°	5208.4	5202.5	5208.4	5223.4	5208.4
15°	5109.9	5118.9	5104.0	5136.8	5107.0
17.5°	4978.6	4987.6	5017.4	5029.3	5026.4
20°	4871.2	4877.1	4912.9	4960.7	4910.0
22.5°	4730.9	4745.8	4763.7	4850.3	4838.3
25°	4587.6	4608.5	4677.1	4742.8	4692.1
27.5°	4438.4	4459.3	4542.8	4590.6	4584.6
30°	4277.2	4298.1	4402.5	4468.2	4438.4
32.5°	4110.0	4145.9	4259.3	4316.0	4259.3
35°	3945.9	3963.8	4074.2	4119.0	4092.1
37.5°	3728.0	3796.6	3907.1	3936.9	3889.2
40°	3563.8	3566.8	3725.0	3725.0	3722.0
42.5°	3351.9	3399.7	3504.1	3560.8	3531.0
45°	3169.8	3184.8	3319.1	3360.9	3351.9
47.5°	2969.9	3029.5	3128.0	3175.8	3151.9
50°	2772.9	2814.6	2916.1	2978.8	2954.9
52.5°	2590.8	2623.6	2728.1	2763.9	2740.0
55°	2369.9	2423.6	2510.2	2546.0	2525.1
57.5°	2178.9	2217.7	2325.1	2337.1	2325.1
60°	1978.9	2023.7	2110.2	2119.2	2095.3
62.5°	1787.9	1817.7	1895.3	1898.3	1871.5
65°	1584.9	1620.7	1674.5	1668.5	1641.6
67.5°	1384.9	1408.8	1459.6	1438.7	1408.8
70°	1182.0	1202.9	1244.7	1214.8	1187.9
72.5°	985.0	999.9	1035.7	990.9	958.1
75°	791.0	796.9	823.8	767.1	719.3
77.5°	599.9	605.9	620.8	564.1	510.4
80°	426.8	426.8	432.8	373.1	337.3
82.5°	268.6	268.6	265.6	220.9	200.0
85°	140.3	137.3	134.3	107.5	98.5
87.5°	50.7	50.7	41.8	38.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)