

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: P487216

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-35-120-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: P487216
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-LD4-3HI-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

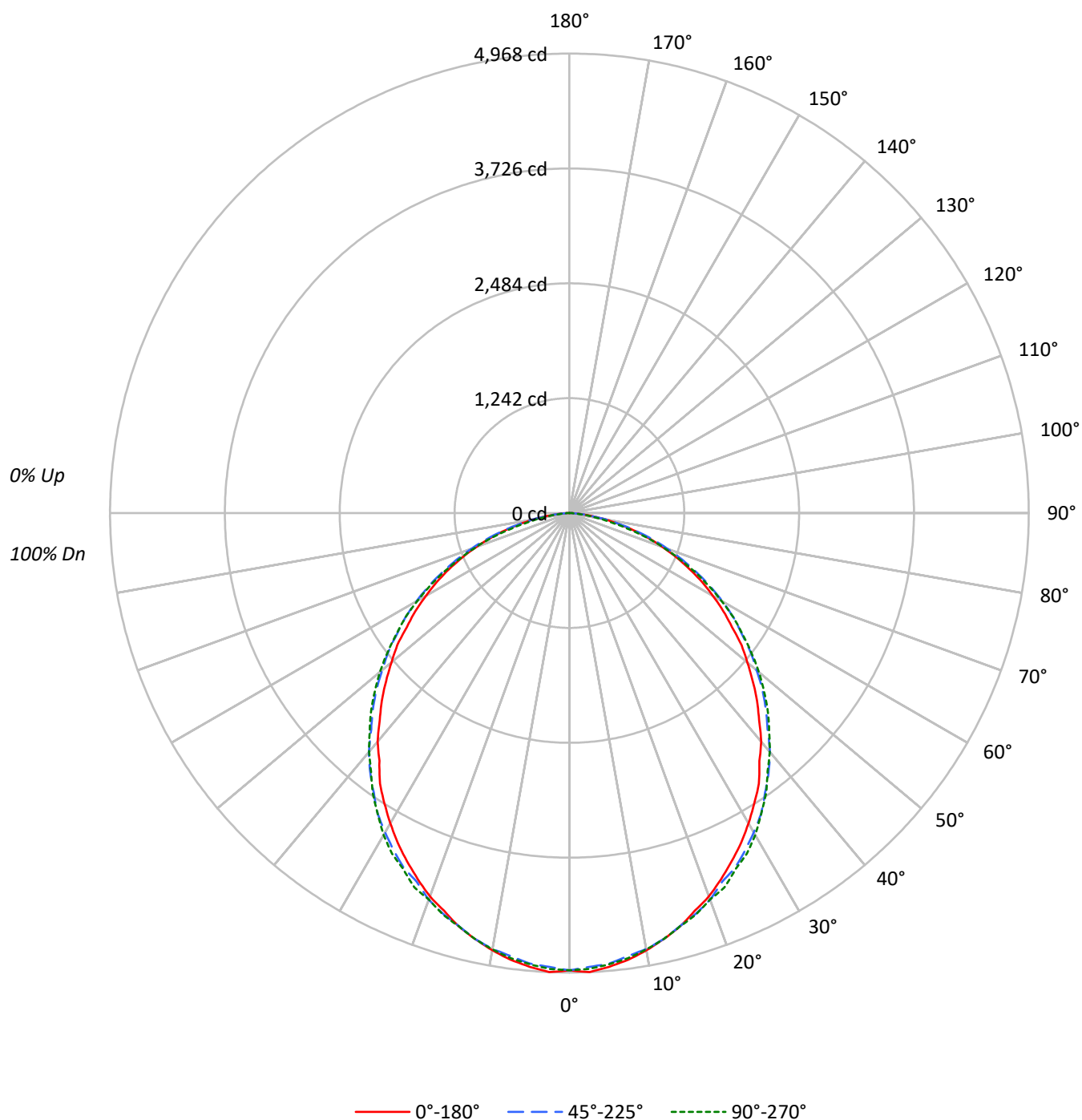
Lumens per Lamp: N/A
Luminaire Lumens: 12698.4 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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°	6652	6652	6652
5°	6652	6604	6615
10°	6559	6537	6544
15°	6446	6438	6442
20°	6316	6370	6367
25°	6168	6288	6308
30°	6018	6194	6245
35°	5869	6060	6087
40°	5669	5925	5920
45°	5462	5719	5776
50°	5256	5528	5601
55°	5035	5332	5364
60°	4823	5142	5106
65°	4570	4828	4733
70°	4211	4434	4232
75°	3724	3878	3386
80°	2995	3037	2366
85°	1961	1877	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	3.7
10°-20°	1306.6	10.3
20°-30°	1945.3	15.3
30°-40°	2289.8	18.0
40°-50°	2295.8	18.1
50°-60°	2013.2	15.9
60°-70°	1472.1	11.6
70°-80°	758.7	6.0
80°-90°	152.2	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°	3716.6	29.3
0°-40°	6006.4	47.3
0°-60°	10315.4	81.2
0°-90°	12698.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12698.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4944	4944	4944	4944	4944	
5°	4925	4892	4890	4922	4898	466
15°	4628	4636	4622	4652	4625	1302
25°	4154	4173	4236	4295	4249	1914
35°	3573	3590	3690	3730	3706	2225
45°	2871	2884	3006	3044	3036	2212
55°	2146	2195	2273	2306	2287	1926
65°	1435	1468	1516	1511	1487	1420
75°	716	722	746	695	651	759
85°	127	124	122	97	89	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4943.8	4943.8	4943.8	4943.8	4943.8
2.5°	4968.1	4943.8	4911.3	4938.4	4933.0
5°	4924.9	4892.4	4889.7	4922.1	4897.8
7.5°	4870.8	4865.4	4832.9	4868.1	4854.6
10°	4800.5	4795.1	4784.3	4808.6	4789.7
12.5°	4716.7	4711.3	4716.7	4730.2	4716.7
15°	4627.5	4635.6	4622.1	4651.8	4624.8
17.5°	4508.6	4516.7	4543.7	4554.5	4551.8
20°	4411.3	4416.7	4449.1	4492.4	4446.4
22.5°	4284.2	4297.8	4314.0	4392.4	4381.5
25°	4154.5	4173.4	4235.6	4295.1	4249.1
27.5°	4019.3	4038.3	4114.0	4157.2	4151.8
30°	3873.4	3892.3	3986.9	4046.4	4019.3
32.5°	3722.0	3754.5	3857.2	3908.5	3857.2
35°	3573.4	3589.6	3689.6	3730.1	3705.8
37.5°	3376.0	3438.2	3538.2	3565.2	3522.0
40°	3227.4	3230.1	3373.3	3373.3	3370.6
42.5°	3035.5	3078.7	3173.3	3224.7	3197.6
45°	2870.6	2884.1	3005.7	3043.6	3035.5
47.5°	2689.5	2743.5	2832.7	2876.0	2854.4
50°	2511.1	2548.9	2640.8	2697.6	2676.0
52.5°	2346.2	2375.9	2470.5	2503.0	2481.3
55°	2146.2	2194.8	2273.2	2305.7	2286.7
57.5°	1973.2	2008.3	2105.6	2116.4	2105.6
60°	1792.1	1832.6	1911.0	1919.1	1897.5
62.5°	1619.1	1646.1	1716.4	1719.1	1694.8
65°	1435.3	1467.7	1516.4	1511.0	1486.6
67.5°	1254.2	1275.8	1321.8	1302.8	1275.8
70°	1070.4	1089.3	1127.1	1100.1	1075.8
72.5°	892.0	905.5	937.9	897.4	867.7
75°	716.3	721.7	746.0	694.7	651.4
77.5°	543.3	548.7	562.2	510.9	462.2
80°	386.5	386.5	391.9	337.9	305.4
82.5°	243.3	243.3	240.6	200.0	181.1
85°	127.0	124.3	121.6	97.3	89.2
87.5°	46.0	46.0	37.8	35.1	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)