

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: P487215

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-3HI-30-120-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: P487215
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-30-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

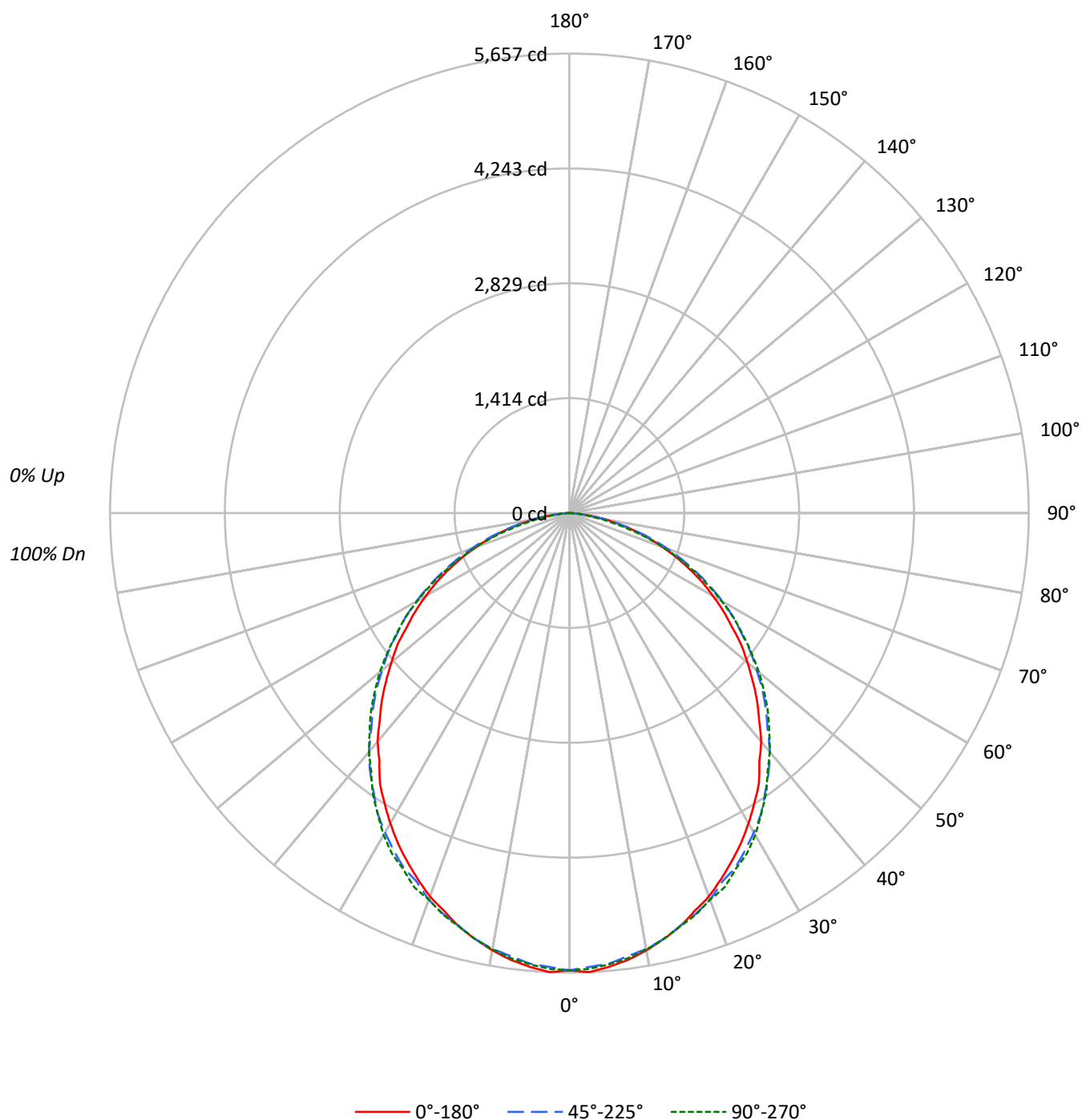
Lumens per Lamp: N/A
Luminaire Lumens: 14459.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	7574	7574	7574
5°	7574	7520	7532
10°	7468	7443	7451
15°	7340	7331	7335
20°	7192	7254	7249
25°	7023	7160	7183
30°	6852	7053	7110
35°	6683	6900	6931
40°	6454	6746	6741
45°	6220	6512	6577
50°	5985	6294	6378
55°	5732	6072	6108
60°	5491	5856	5814
65°	5203	5497	5389
70°	4795	5049	4819
75°	4240	4416	3856
80°	3410	3458	2695
85°	2234	2138	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.1	3.7
10°-20°	1487.8	10.3
20°-30°	2215.0	15.3
30°-40°	2607.2	18.0
40°-50°	2614.1	18.1
50°-60°	2292.3	15.9
60°-70°	1676.2	11.6
70°-80°	863.9	6.0
80°-90°	173.3	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°	4231.9	29.3
0°-40°	6839.2	47.3
0°-60°	11745.6	81.2
0°-90°	14459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5629	5629	5629	5629	5629	
5°	5608	5571	5568	5605	5577	531
15°	5269	5278	5263	5297	5266	1483
25°	4730	4752	4823	4891	4838	2179
35°	4069	4087	4201	4247	4220	2534
45°	3269	3284	3422	3466	3456	2519
55°	2444	2499	2588	2625	2604	2194
65°	1634	1671	1727	1720	1693	1617
75°	816	822	850	791	742	864
85°	145	142	138	111	102	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5629.2	5629.2	5629.2	5629.2	5629.2
2.5°	5656.9	5629.2	5592.3	5623.1	5616.9
5°	5607.7	5570.7	5567.7	5604.6	5576.9
7.5°	5546.1	5540.0	5503.0	5543.0	5527.6
10°	5466.1	5459.9	5447.6	5475.3	5453.8
12.5°	5370.7	5364.5	5370.7	5386.1	5370.7
15°	5269.1	5278.3	5263.0	5296.8	5266.0
17.5°	5133.7	5142.9	5173.7	5186.0	5182.9
20°	5022.9	5029.1	5066.0	5115.2	5062.9
22.5°	4878.2	4893.6	4912.1	5001.4	4989.0
25°	4730.5	4752.1	4822.8	4890.6	4838.2
27.5°	4576.6	4598.2	4684.3	4733.6	4727.4
30°	4410.4	4432.0	4539.7	4607.4	4576.6
32.5°	4238.1	4275.0	4392.0	4450.4	4392.0
35°	4068.8	4087.3	4201.1	4247.3	4219.6
37.5°	3844.1	3914.9	4028.8	4059.6	4010.3
40°	3674.8	3677.9	3841.0	3841.0	3838.0
42.5°	3456.3	3505.6	3613.3	3671.8	3641.0
45°	3268.6	3284.0	3422.5	3465.6	3456.3
47.5°	3062.4	3123.9	3225.5	3274.7	3250.1
50°	2859.2	2902.3	3007.0	3071.6	3047.0
52.5°	2671.5	2705.3	2813.1	2850.0	2825.4
55°	2443.7	2499.1	2588.4	2625.3	2603.8
57.5°	2246.8	2286.8	2397.6	2409.9	2397.6
60°	2040.6	2086.7	2176.0	2185.2	2160.6
62.5°	1843.6	1874.4	1954.4	1957.5	1929.8
65°	1634.3	1671.2	1726.6	1720.5	1692.8
67.5°	1428.1	1452.7	1505.0	1483.5	1452.7
70°	1218.8	1240.3	1283.4	1252.6	1224.9
72.5°	1015.7	1031.0	1068.0	1021.8	988.0
75°	815.6	821.8	849.5	791.0	741.7
77.5°	618.6	624.8	640.2	581.7	526.3
80°	440.1	440.1	446.3	384.7	347.8
82.5°	277.0	277.0	273.9	227.8	206.2
85°	144.7	141.6	138.5	110.8	101.6
87.5°	52.3	52.3	43.1	40.0	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)