

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: P487317

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-5STD-50-120-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: P487317
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-50-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

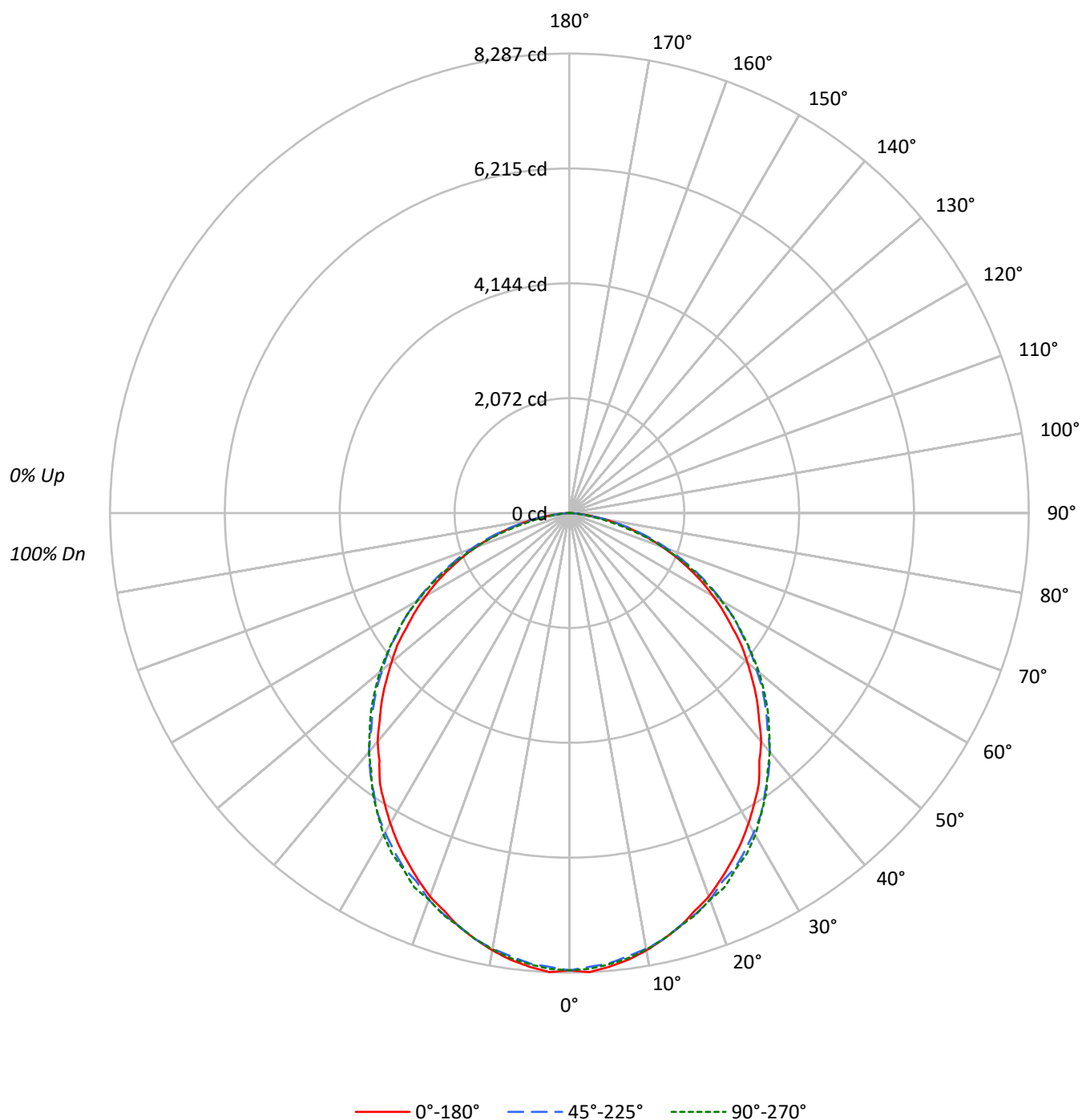
Lumens per Lamp: N/A
Luminaire Lumens: 21180.4 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	11095	11095	11095
5°	11095	11015	11034
10°	10940	10903	10915
15°	10752	10739	10745
20°	10535	10626	10619
25°	10287	10488	10522
30°	10037	10332	10416
35°	9790	10108	10153
40°	9455	9883	9875
45°	9111	9540	9634
50°	8767	9220	9343
55°	8397	8894	8947
60°	8044	8577	8517
65°	7622	8053	7895
70°	7024	7396	7059
75°	6211	6469	5648
80°	4995	5065	3948
85°	3271	3132	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.1	3.7
10°-20°	2179.4	10.3
20°-30°	3244.7	15.3
30°-40°	3819.2	18.0
40°-50°	3829.3	18.1
50°-60°	3357.9	15.9
60°-70°	2455.4	11.6
70°-80°	1265.4	6.0
80°-90°	253.9	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°	6199.2	29.3
0°-40°	10018.5	47.3
0°-60°	17205.7	81.2
0°-90°	21180.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21180.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8246	8246	8246	8246	8246	
5°	8214	8160	8156	8210	8169	778
15°	7718	7732	7710	7759	7714	2172
25°	6930	6961	7065	7164	7087	3192
35°	5960	5987	6154	6222	6181	3712
45°	4788	4810	5013	5076	5063	3690
55°	3580	3661	3792	3846	3814	3213
65°	2394	2448	2529	2520	2480	2368
75°	1195	1204	1244	1159	1086	1266
85°	212	207	203	162	149	276
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8246.0	8246.0	8246.0	8246.0	8246.0
2.5°	8286.6	8246.0	8191.9	8237.0	8228.0
5°	8214.4	8160.3	8155.8	8209.9	8169.4
7.5°	8124.3	8115.3	8061.2	8119.8	8097.2
10°	8007.1	7998.0	7980.0	8020.6	7989.0
12.5°	7867.3	7858.3	7867.3	7889.8	7867.3
15°	7718.5	7732.0	7709.5	7759.1	7714.0
17.5°	7520.1	7533.7	7578.7	7596.8	7592.3
20°	7357.8	7366.9	7421.0	7493.1	7416.4
22.5°	7145.9	7168.5	7195.5	7326.3	7308.2
25°	6929.5	6961.1	7064.8	7164.0	7087.3
27.5°	6704.1	6735.7	6861.9	6934.0	6925.0
30°	6460.6	6492.2	6650.0	6749.2	6704.1
32.5°	6208.2	6262.3	6433.6	6519.3	6433.6
35°	5960.2	5987.3	6154.1	6221.7	6181.1
37.5°	5631.1	5734.8	5901.6	5946.7	5874.5
40°	5383.1	5387.6	5626.6	5626.6	5622.1
42.5°	5063.0	5135.2	5293.0	5378.6	5333.5
45°	4788.0	4810.5	5013.4	5076.5	5063.0
47.5°	4485.9	4576.1	4724.9	4797.0	4761.0
50°	4188.4	4251.5	4404.8	4499.5	4463.4
52.5°	3913.4	3963.0	4120.7	4174.8	4138.8
55°	3579.7	3660.9	3791.6	3845.7	3814.2
57.5°	3291.2	3349.8	3512.1	3530.1	3512.1
60°	2989.1	3056.7	3187.5	3201.0	3165.0
62.5°	2700.6	2745.7	2862.9	2867.4	2826.8
65°	2394.0	2448.1	2529.3	2520.2	2479.7
67.5°	2091.9	2128.0	2204.6	2173.1	2128.0
70°	1785.4	1816.9	1880.0	1835.0	1794.4
72.5°	1487.8	1510.3	1564.4	1496.8	1447.2
75°	1194.7	1203.8	1244.3	1158.7	1086.5
77.5°	906.2	915.2	937.8	852.1	770.9
80°	644.7	644.7	653.7	563.6	509.5
82.5°	405.8	405.8	401.3	333.6	302.1
85°	211.9	207.4	202.9	162.3	148.8
87.5°	76.6	76.6	63.1	58.6	63.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)