

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: P487348

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6STD-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: P487348
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-LD4-6STD-35-120-EDD-90
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

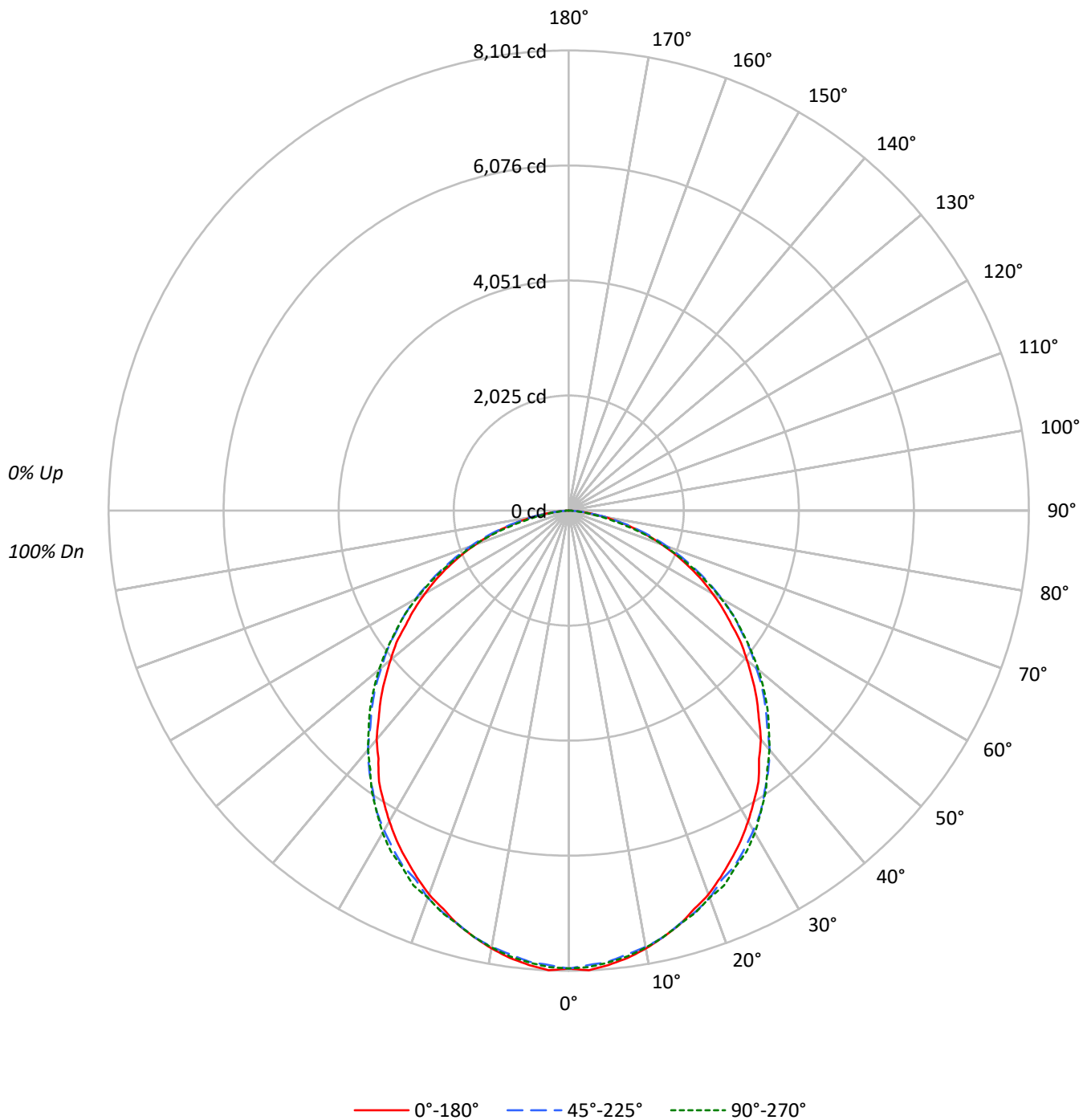
Lumens per Lamp: N/A
Luminaire Lumens: 20705.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	10846	10846	10846
5°	10846	10768	10786
10°	10694	10658	10670
15°	10510	10498	10504
20°	10299	10387	10381
25°	10057	10253	10286
30°	9812	10100	10182
35°	9570	9882	9925
40°	9243	9661	9653
45°	8906	9326	9418
50°	8570	9013	9133
55°	8209	8695	8747
60°	7863	8385	8326
65°	7451	7872	7718
70°	6866	7230	6901
75°	6072	6324	5522
80°	4884	4952	3859
85°	3197	3061	2245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.7	3.7
10°-20°	2130.5	10.3
20°-30°	3172.0	15.3
30°-40°	3733.6	18.0
40°-50°	3743.4	18.1
50°-60°	3282.6	15.9
60°-70°	2400.4	11.6
70°-80°	1237.1	6.0
80°-90°	248.2	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°	6060.2	29.3
0°-40°	9793.8	47.3
0°-60°	16819.8	81.2
0°-90°	20705.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20705.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8061	8061	8061	8061	8061	
5°	8030	7977	7973	8026	7986	760
15°	7545	7559	7537	7585	7541	2124
25°	6774	6805	6906	7003	6928	3120
35°	5826	5853	6016	6082	6042	3629
45°	4681	4703	4901	4963	4950	3607
55°	3500	3579	3707	3760	3729	3141
65°	2340	2393	2472	2464	2424	2315
75°	1168	1177	1216	1133	1062	1238
85°	207	203	198	159	145	270
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8061.1	8061.1	8061.1	8061.1	8061.1
2.5°	8100.7	8061.1	8008.2	8052.3	8043.4
5°	8030.2	7977.3	7972.9	8025.8	7986.2
7.5°	7942.1	7933.3	7880.4	7937.7	7915.6
10°	7827.5	7818.7	7801.0	7840.7	7809.9
12.5°	7690.9	7682.0	7690.9	7712.9	7690.9
15°	7545.4	7558.6	7536.6	7585.1	7541.0
17.5°	7351.5	7364.7	7408.8	7426.4	7422.0
20°	7192.8	7201.6	7254.5	7325.0	7250.1
22.5°	6985.7	7007.7	7034.2	7162.0	7144.3
25°	6774.1	6805.0	6906.3	7003.3	6928.4
27.5°	6553.8	6584.6	6708.0	6778.5	6769.7
30°	6315.8	6346.6	6500.9	6597.8	6553.8
32.5°	6068.9	6121.8	6289.3	6373.1	6289.3
35°	5826.5	5853.0	6016.1	6082.2	6042.5
37.5°	5504.8	5606.2	5769.2	5813.3	5742.8
40°	5262.4	5266.8	5500.4	5500.4	5496.0
42.5°	4949.5	5020.0	5174.3	5258.0	5213.9
45°	4680.6	4702.7	4901.0	4962.7	4949.5
47.5°	4385.3	4473.5	4618.9	4689.4	4654.2
50°	4094.4	4156.1	4306.0	4398.6	4363.3
52.5°	3825.6	3874.1	4028.3	4081.2	4046.0
55°	3499.5	3578.8	3706.6	3759.5	3728.6
57.5°	3217.4	3274.7	3433.3	3451.0	3433.3
60°	2922.1	2988.2	3116.0	3129.2	3094.0
62.5°	2640.0	2684.1	2798.7	2803.1	2763.4
65°	2340.3	2393.2	2472.5	2463.7	2424.1
67.5°	2045.0	2080.3	2155.2	2124.4	2080.3
70°	1745.3	1776.2	1837.9	1793.8	1754.1
72.5°	1454.4	1476.5	1529.4	1463.2	1414.8
75°	1168.0	1176.8	1216.4	1132.7	1062.2
77.5°	885.9	894.7	916.7	833.0	753.7
80°	630.3	630.3	639.1	550.9	498.0
82.5°	396.7	396.7	392.3	326.1	295.3
85°	207.1	202.7	198.3	158.7	145.4
87.5°	74.9	74.9	61.7	57.3	61.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)