

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: P487325

Luminaire Tested: **ORLG-24-4-INS-A125-LD4-6HI-35-120-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: P487325
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-LD4-6HI-35-120-EDD
Description: 2X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

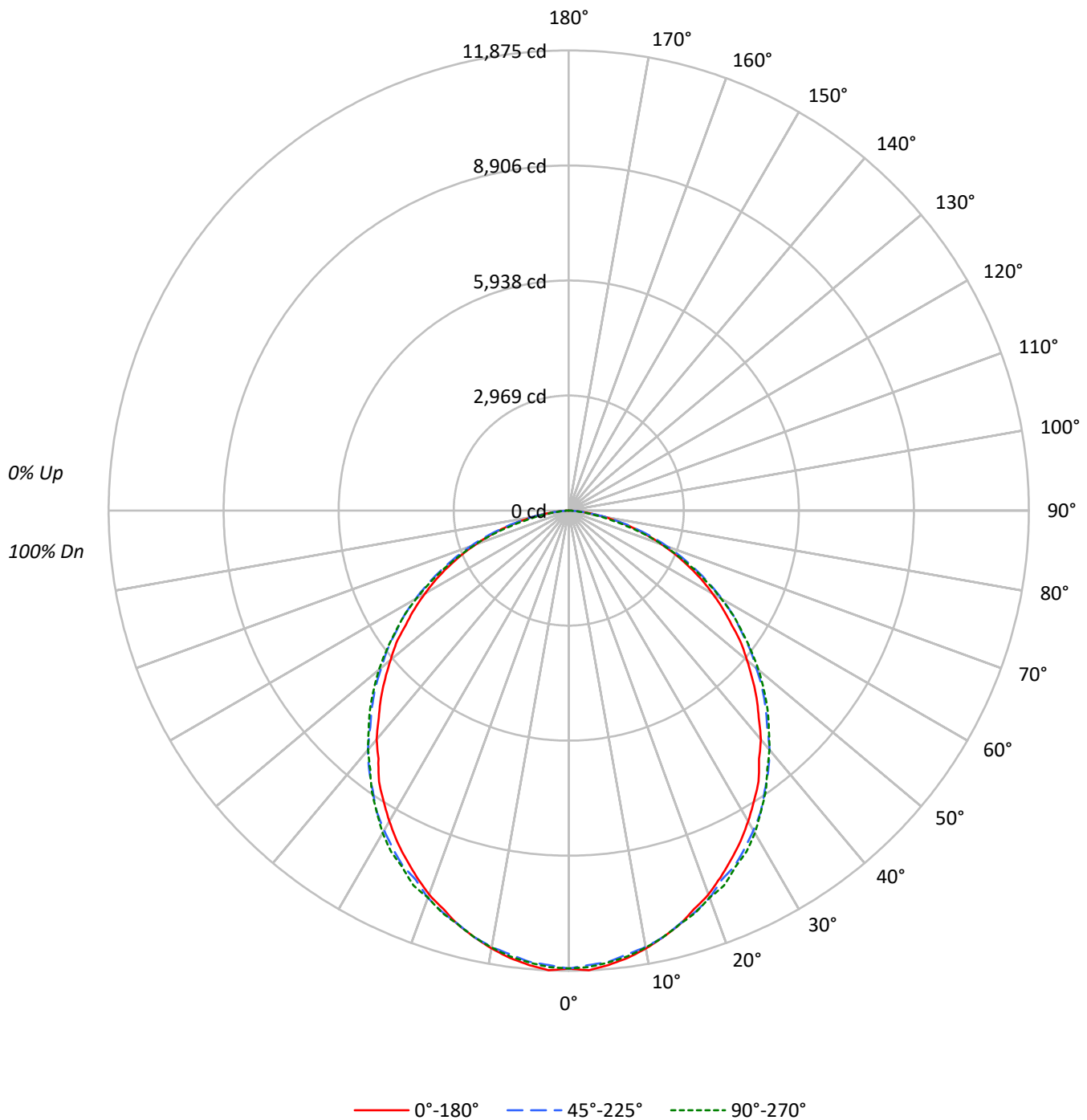
Lumens per Lamp: N/A
Luminaire Lumens: 30351.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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					10
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°	15899	15899	15899
5°	15899	15785	15811
10°	15676	15624	15641
15°	15407	15389	15398
20°	15097	15227	15217
25°	14742	15030	15078
30°	14384	14805	14926
35°	14029	14485	14549
40°	13549	14162	14151
45°	13056	13670	13805
50°	12563	13213	13388
55°	12033	12746	12821
60°	11527	12292	12205
65°	10922	11539	11313
70°	10065	10598	10115
75°	8900	9270	8094
80°	7159	7259	5657
85°	4688	4488	3291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.7	3.7
10°-20°	3123.1	10.3
20°-30°	4649.7	15.3
30°-40°	5473.0	18.0
40°-50°	5487.4	18.1
50°-60°	4811.9	15.9
60°-70°	3518.6	11.6
70°-80°	1813.4	6.0
80°-90°	363.8	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°	8883.5	29.3
0°-40°	14356.5	47.3
0°-60°	24655.8	81.2
0°-90°	30351.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30351.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11817	11817	11817	11817	11817	
5°	11771	11694	11687	11765	11707	###
15°	11061	11080	11048	11119	11054	3113
25°	9930	9975	10124	10266	10156	4574
35°	8541	8580	8819	8916	8858	5319
45°	6861	6894	7184	7275	7255	5288
55°	5130	5246	5433	5511	5466	4605
65°	3431	3508	3624	3612	3553	3394
75°	1712	1725	1783	1660	1557	1814
85°	304	297	291	233	213	396
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11816.6	11816.6	11816.6	11816.6	11816.6
2.5°	11874.7	11816.6	11739.0	11803.6	11790.7
5°	11771.3	11693.8	11687.3	11764.9	11706.7
7.5°	11642.1	11629.2	11551.7	11635.7	11603.4
10°	11474.1	11461.2	11435.4	11493.5	11448.3
12.5°	11273.9	11260.9	11273.9	11306.2	11273.9
15°	11060.7	11080.0	11047.7	11118.8	11054.2
17.5°	10776.4	10795.8	10860.4	10886.2	10879.8
20°	10543.8	10556.7	10634.3	10737.6	10627.8
22.5°	10240.2	10272.5	10311.2	10498.6	10472.7
25°	9930.0	9975.3	10123.9	10266.0	10156.2
27.5°	9607.0	9652.2	9833.1	9936.5	9923.6
30°	9258.1	9303.4	9529.5	9671.6	9607.0
32.5°	8896.3	8973.9	9219.4	9342.1	9219.4
35°	8541.0	8579.8	8818.8	8915.7	8857.6
37.5°	8069.4	8218.0	8457.0	8521.6	8418.2
40°	7714.0	7720.5	8062.9	8062.9	8056.5
42.5°	7255.3	7358.7	7584.8	7707.6	7643.0
45°	6861.2	6893.5	7184.3	7274.7	7255.3
47.5°	6428.4	6557.6	6770.8	6874.1	6822.5
50°	6002.0	6092.4	6312.1	6447.7	6396.1
52.5°	5607.9	5678.9	5905.0	5982.6	5930.9
55°	5129.8	5246.1	5433.4	5510.9	5465.7
57.5°	4716.3	4800.3	5032.9	5058.7	5032.9
60°	4283.4	4380.3	4567.7	4587.1	4535.4
62.5°	3869.9	3934.5	4102.5	4109.0	4050.8
65°	3430.6	3508.1	3624.4	3611.5	3553.4
67.5°	2997.7	3049.4	3159.3	3114.0	3049.4
70°	2558.4	2603.6	2694.1	2629.5	2571.3
72.5°	2132.0	2164.3	2241.9	2144.9	2073.9
75°	1712.1	1725.0	1783.1	1660.4	1557.0
77.5°	1298.6	1311.5	1343.8	1221.1	1104.8
80°	923.9	923.9	936.8	807.6	730.1
82.5°	581.5	581.5	575.0	478.1	432.9
85°	303.7	297.2	290.7	232.6	213.2
87.5°	109.8	109.8	90.4	84.0	90.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)