

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: P489861

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-50-120-EDD**

Issue Date: 3/11/2021

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: P489861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-P12125-LD4-3STD-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

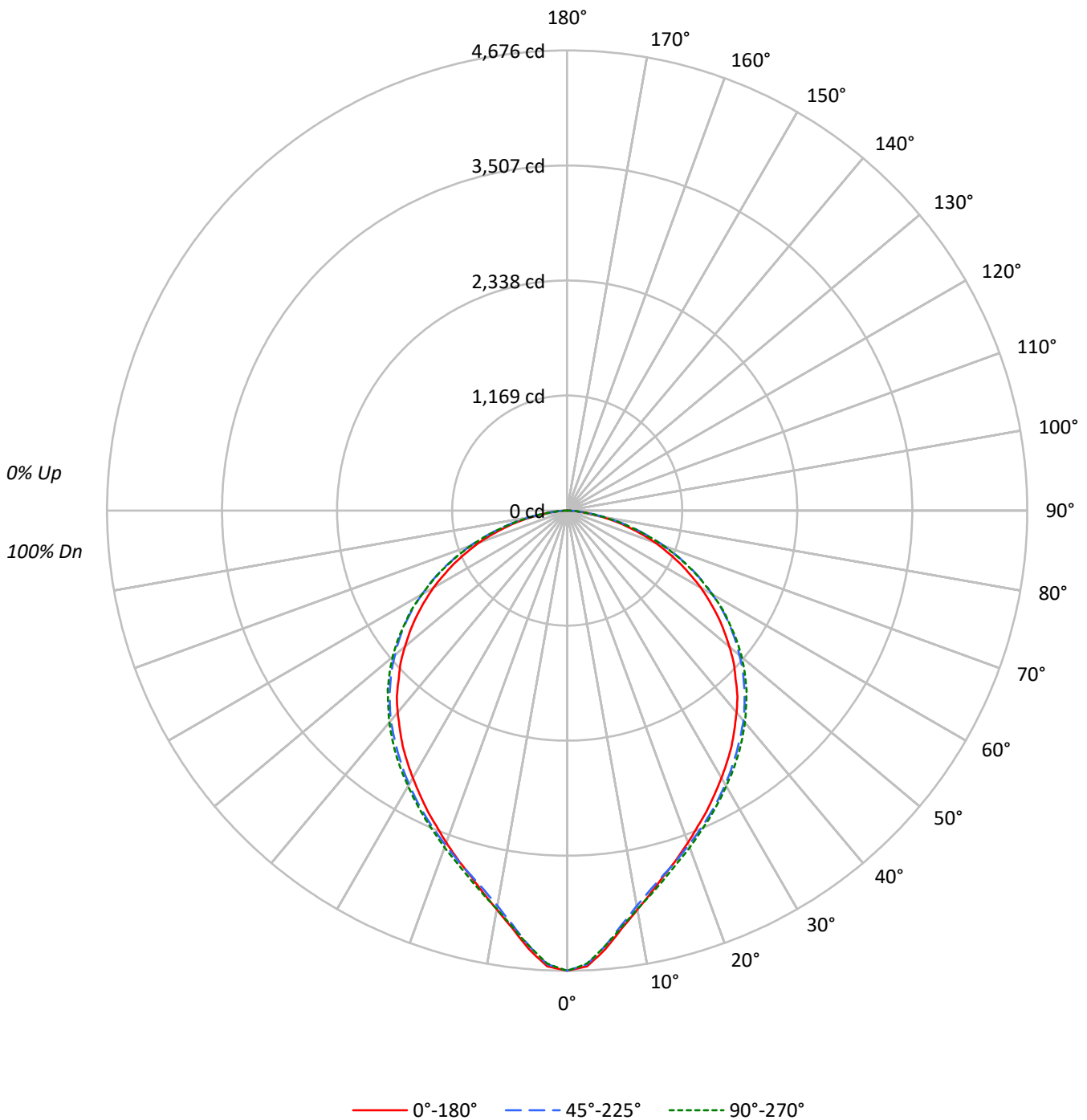
Lumens per Lamp: N/A
Luminaire Lumens: 10860.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																												
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																												
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59																												
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51																												
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44																												
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38																												
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34																												
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																												
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																												
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6291	6291	6291
5°	6041	5998	5998
10°	5622	5571	5614
15°	5335	5325	5377
20°	5139	5176	5216
25°	4992	5073	5103
30°	4872	4992	5023
35°	4788	4928	4978
40°	4703	4894	4935
45°	4606	4846	4904
50°	4505	4786	4850
55°	4380	4717	4736
60°	4222	4587	4578
65°	4002	4411	4382
70°	3736	4114	4063
75°	3298	3644	3608
80°	2679	2969	2824
85°	1859	1894	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	3.8
10°-20°	1082.2	10.0
20°-30°	1573.7	14.5
30°-40°	1872.7	17.2
40°-50°	1944.5	17.9
50°-60°	1761.6	16.2
60°-70°	1329.3	12.2
70°-80°	724.3	6.7
80°-90°	159.2	1.5
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°	3069.1	28.3
0°-40°	4941.8	45.5
0°-60°	8647.9	79.6
0°-90°	10860.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10860.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4676	4676	4676	4676	4676	
5°	4472	4462	4441	4438	4441	415
15°	3830	3820	3823	3848	3860	1081
25°	3362	3390	3417	3445	3437	1549
35°	2915	2950	3000	3046	3031	1822
45°	2421	2464	2547	2575	2577	1871
55°	1867	1911	2011	2025	2019	1667
65°	1257	1293	1386	1383	1376	1243
75°	634	660	701	706	694	676
85°	120	122	123	122	118	152
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4675.7	4675.7	4675.7	4675.7	4675.7
2.5°	4634.8	4630.1	4614.9	4609.1	4607.9
5°	4472.4	4461.9	4440.8	4438.5	4440.8
7.5°	4278.5	4266.7	4245.8	4253.9	4264.5
10°	4114.9	4085.7	4077.4	4089.2	4109.0
12.5°	3968.8	3945.5	3938.4	3968.8	3982.9
15°	3829.8	3820.4	3822.8	3848.5	3860.2
17.5°	3709.5	3703.6	3718.8	3738.7	3744.6
20°	3589.1	3600.9	3614.9	3635.9	3642.9
22.5°	3471.1	3493.3	3516.7	3544.7	3535.4
25°	3362.5	3390.5	3417.4	3445.4	3437.3
27.5°	3246.8	3279.5	3316.9	3347.3	3335.6
30°	3135.8	3176.7	3212.9	3250.3	3232.8
32.5°	3026.0	3064.6	3107.8	3153.4	3133.5
35°	2915.0	2950.1	3000.3	3045.9	3030.7
37.5°	2792.4	2835.6	2892.8	2932.5	2922.1
40°	2677.8	2717.6	2786.5	2812.2	2809.8
42.5°	2562.1	2594.9	2667.3	2696.5	2691.8
45°	2420.8	2464.0	2547.0	2575.1	2577.3
47.5°	2295.8	2332.0	2420.8	2443.0	2447.6
50°	2152.1	2197.7	2286.5	2313.3	2316.8
52.5°	2010.7	2059.7	2150.9	2169.6	2173.1
55°	1867.0	1911.4	2010.7	2024.8	2018.9
57.5°	1716.3	1770.0	1861.2	1868.2	1874.0
60°	1569.0	1615.8	1704.6	1713.9	1701.1
62.5°	1409.0	1456.9	1548.1	1550.4	1539.8
65°	1257.1	1293.3	1385.6	1383.3	1376.3
67.5°	1098.2	1142.6	1210.4	1212.7	1206.9
70°	949.8	980.2	1045.7	1046.8	1032.8
72.5°	789.8	822.5	875.0	868.1	864.6
75°	634.4	660.1	701.0	705.7	694.0
77.5°	491.9	510.6	541.0	537.5	524.6
80°	345.8	361.0	383.2	378.6	364.5
82.5°	220.8	230.2	244.2	238.3	232.5
85°	120.4	121.5	122.7	121.5	118.0
87.5°	44.4	45.6	45.6	44.4	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)