

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: P489793

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-27-120-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: P489793
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-LD4-2HI-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

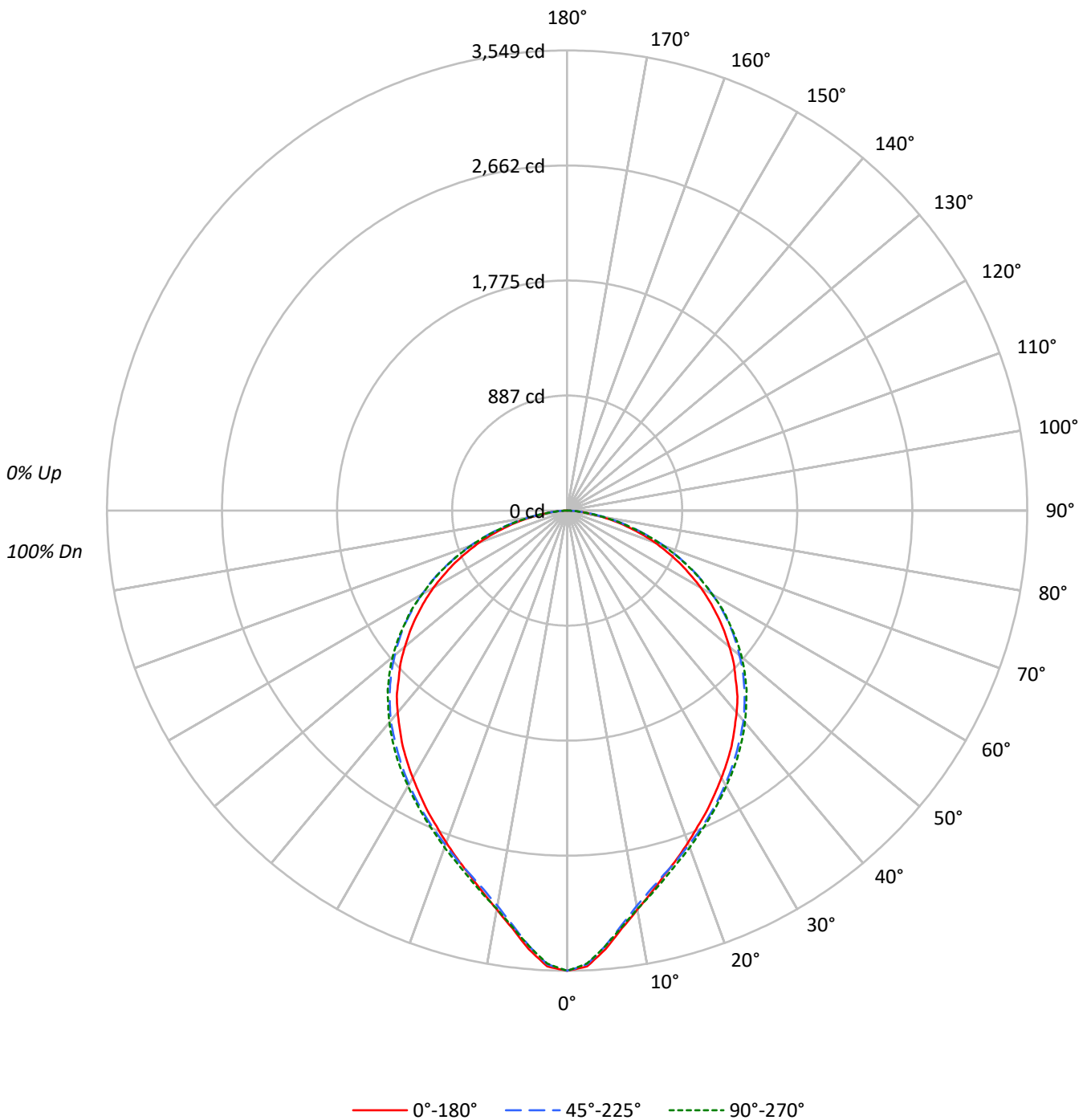
Lumens per Lamp: N/A
Luminaire Lumens: 8244.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4776	4776	4776
5°	4585	4553	4553
10°	4268	4229	4261
15°	4049	4042	4082
20°	3901	3929	3959
25°	3789	3851	3874
30°	3698	3789	3813
35°	3634	3741	3779
40°	3570	3715	3746
45°	3497	3679	3723
50°	3419	3633	3681
55°	3324	3580	3595
60°	3205	3482	3475
65°	3038	3349	3326
70°	2836	3122	3084
75°	2504	2767	2739
80°	2034	2254	2144
85°	1411	1437	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	3.8
10°-20°	821.5	10.0
20°-30°	1194.6	14.5
30°-40°	1421.5	17.2
40°-50°	1476.1	17.9
50°-60°	1337.2	16.2
60°-70°	1009.1	12.2
70°-80°	549.8	6.7
80°-90°	120.8	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°	2329.7	28.3
0°-40°	3751.3	45.5
0°-60°	6564.5	79.6
0°-90°	8244.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8244.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3549	3549	3549	3549	3549	
5°	3395	3387	3371	3369	3371	315
15°	2907	2900	2902	2921	2930	821
25°	2552	2574	2594	2615	2609	1176
35°	2213	2239	2278	2312	2301	1383
45°	1838	1870	1933	1955	1956	1420
55°	1417	1451	1526	1537	1532	1265
65°	954	982	1052	1050	1045	943
75°	482	501	532	536	527	513
85°	91	92	93	92	90	115
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3549.3	3549.3	3549.3	3549.3	3549.3
2.5°	3518.2	3514.7	3503.1	3498.7	3497.8
5°	3394.9	3387.0	3371.0	3369.2	3371.0
7.5°	3247.7	3238.8	3222.9	3229.1	3237.1
10°	3123.6	3101.4	3095.1	3104.0	3119.1
12.5°	3012.7	2994.9	2989.6	3012.7	3023.4
15°	2907.1	2900.0	2901.8	2921.4	2930.2
17.5°	2815.8	2811.4	2822.9	2838.0	2842.4
20°	2724.5	2733.4	2744.0	2760.0	2765.2
22.5°	2634.9	2651.7	2669.5	2690.8	2683.7
25°	2552.4	2573.7	2594.1	2615.4	2609.2
27.5°	2464.6	2489.4	2517.8	2540.9	2532.0
30°	2380.3	2411.4	2438.9	2467.2	2454.0
32.5°	2297.0	2326.3	2359.1	2393.7	2378.6
35°	2212.7	2239.3	2277.5	2312.1	2300.6
37.5°	2119.6	2152.4	2195.9	2226.0	2218.1
40°	2032.7	2062.9	2115.2	2134.7	2132.9
42.5°	1944.9	1969.8	2024.7	2046.9	2043.3
45°	1837.6	1870.4	1933.4	1954.7	1956.4
47.5°	1742.7	1770.2	1837.6	1854.4	1858.0
50°	1633.6	1668.2	1735.6	1756.0	1758.7
52.5°	1526.3	1563.5	1632.7	1646.9	1649.6
55°	1417.2	1450.9	1526.3	1537.0	1532.5
57.5°	1302.8	1343.6	1412.8	1418.1	1422.5
60°	1191.0	1226.5	1293.9	1301.0	1291.3
62.5°	1069.6	1105.9	1175.1	1176.9	1168.9
65°	954.2	981.8	1051.8	1050.1	1044.7
67.5°	833.6	867.3	918.8	920.5	916.2
70°	721.0	744.1	793.7	794.6	784.0
72.5°	599.5	624.3	664.2	659.0	656.3
75°	481.6	501.1	532.2	535.7	526.8
77.5°	373.4	387.6	410.6	408.0	398.2
80°	262.5	274.0	290.9	287.4	276.7
82.5°	167.6	174.7	185.4	180.9	176.5
85°	91.4	92.2	93.1	92.2	89.6
87.5°	33.7	34.6	34.6	33.7	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)