

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: P489848

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3LO-50-120-EDD-90**

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: P489848
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-LD4-3LO-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

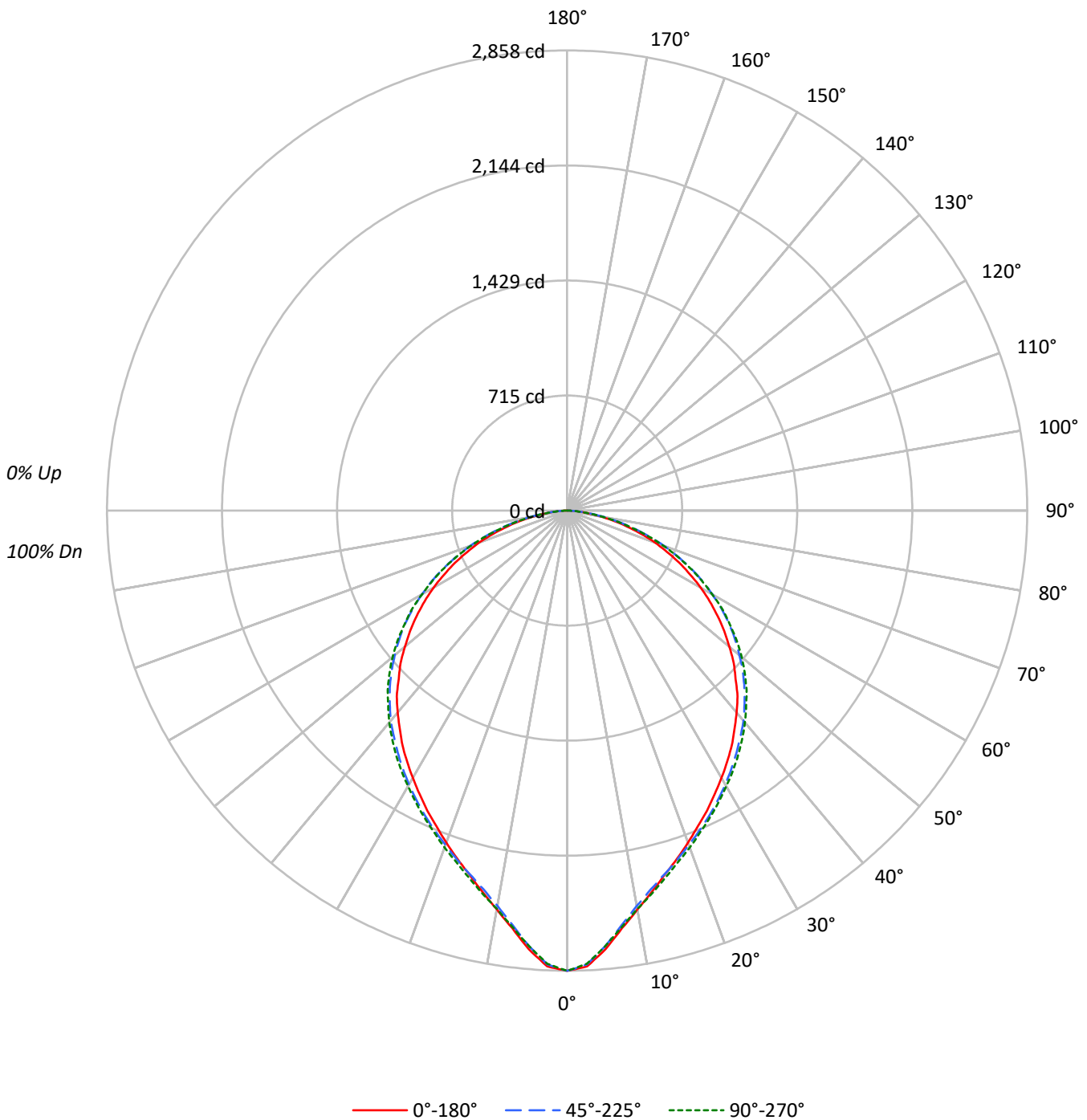
Lumens per Lamp: N/A
Luminaire Lumens: 6639.7 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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	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°	3846	3846	3846
5°	3693	3667	3667
10°	3437	3406	3432
15°	3261	3255	3287
20°	3142	3164	3189
25°	3052	3102	3120
30°	2978	3052	3071
35°	2927	3013	3043
40°	2875	2992	3017
45°	2816	2963	2998
50°	2754	2926	2965
55°	2677	2883	2895
60°	2581	2804	2799
65°	2447	2697	2679
70°	2284	2515	2484
75°	2016	2228	2206
80°	1638	1815	1726
85°	1136	1158	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.6	3.8
10°-20°	661.6	10.0
20°-30°	962.1	14.5
30°-40°	1144.9	17.2
40°-50°	1188.8	17.9
50°-60°	1077.0	16.2
60°-70°	812.7	12.2
70°-80°	442.8	6.7
80°-90°	97.3	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°	1876.3	28.3
0°-40°	3021.2	45.5
0°-60°	5286.9	79.6
0°-90°	6639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6639.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2858	2858	2858	2858	2858	
5°	2734	2728	2715	2714	2715	254
15°	2341	2336	2337	2353	2360	661
25°	2056	2073	2089	2106	2101	947
35°	1782	1804	1834	1862	1853	1114
45°	1480	1506	1557	1574	1576	1144
55°	1141	1168	1229	1238	1234	1019
65°	768	791	847	846	841	760
75°	388	404	429	431	424	413
85°	74	74	75	74	72	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2858.5	2858.5	2858.5	2858.5	2858.5
2.5°	2833.5	2830.6	2821.3	2817.8	2817.0
5°	2734.2	2727.8	2714.9	2713.5	2714.9
7.5°	2615.6	2608.5	2595.7	2600.6	2607.1
10°	2515.6	2497.8	2492.8	2499.9	2512.1
12.5°	2426.3	2412.1	2407.8	2426.3	2435.0
15°	2341.3	2335.6	2337.1	2352.8	2359.9
17.5°	2267.8	2264.2	2273.5	2285.7	2289.2
20°	2194.2	2201.4	2209.9	2222.8	2227.1
22.5°	2122.1	2135.6	2150.0	2167.1	2161.4
25°	2055.7	2072.8	2089.2	2106.4	2101.4
27.5°	1984.9	2004.9	2027.8	2046.4	2039.2
30°	1917.1	1942.1	1964.2	1987.1	1976.4
32.5°	1850.0	1873.5	1899.9	1927.8	1915.7
35°	1782.1	1803.5	1834.2	1862.1	1852.8
37.5°	1707.1	1733.5	1768.5	1792.8	1786.4
40°	1637.1	1661.4	1703.5	1719.3	1717.8
42.5°	1566.4	1586.4	1630.7	1648.5	1645.7
45°	1480.0	1506.4	1557.1	1574.3	1575.7
47.5°	1403.5	1425.7	1480.0	1493.5	1496.4
50°	1315.7	1343.5	1397.8	1414.2	1416.4
52.5°	1229.2	1259.2	1315.0	1326.4	1328.6
55°	1141.4	1168.5	1229.2	1237.8	1234.3
57.5°	1049.3	1082.1	1137.8	1142.1	1145.7
60°	959.2	987.8	1042.1	1047.8	1040.0
62.5°	861.4	890.7	946.4	947.8	941.4
65°	768.5	790.7	847.1	845.7	841.4
67.5°	671.4	698.5	740.0	741.4	737.9
70°	580.7	599.3	639.3	640.0	631.4
72.5°	482.9	502.8	535.0	530.7	528.6
75°	387.8	403.6	428.6	431.4	424.3
77.5°	300.7	312.1	330.7	328.6	320.7
80°	211.4	220.7	234.3	231.4	222.8
82.5°	135.0	140.7	149.3	145.7	142.1
85°	73.6	74.3	75.0	74.3	72.1
87.5°	27.1	27.9	27.9	27.1	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)