

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: P488848

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-35-120-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: P488848
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-12-4-INS-P12125-LD4-3STD-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

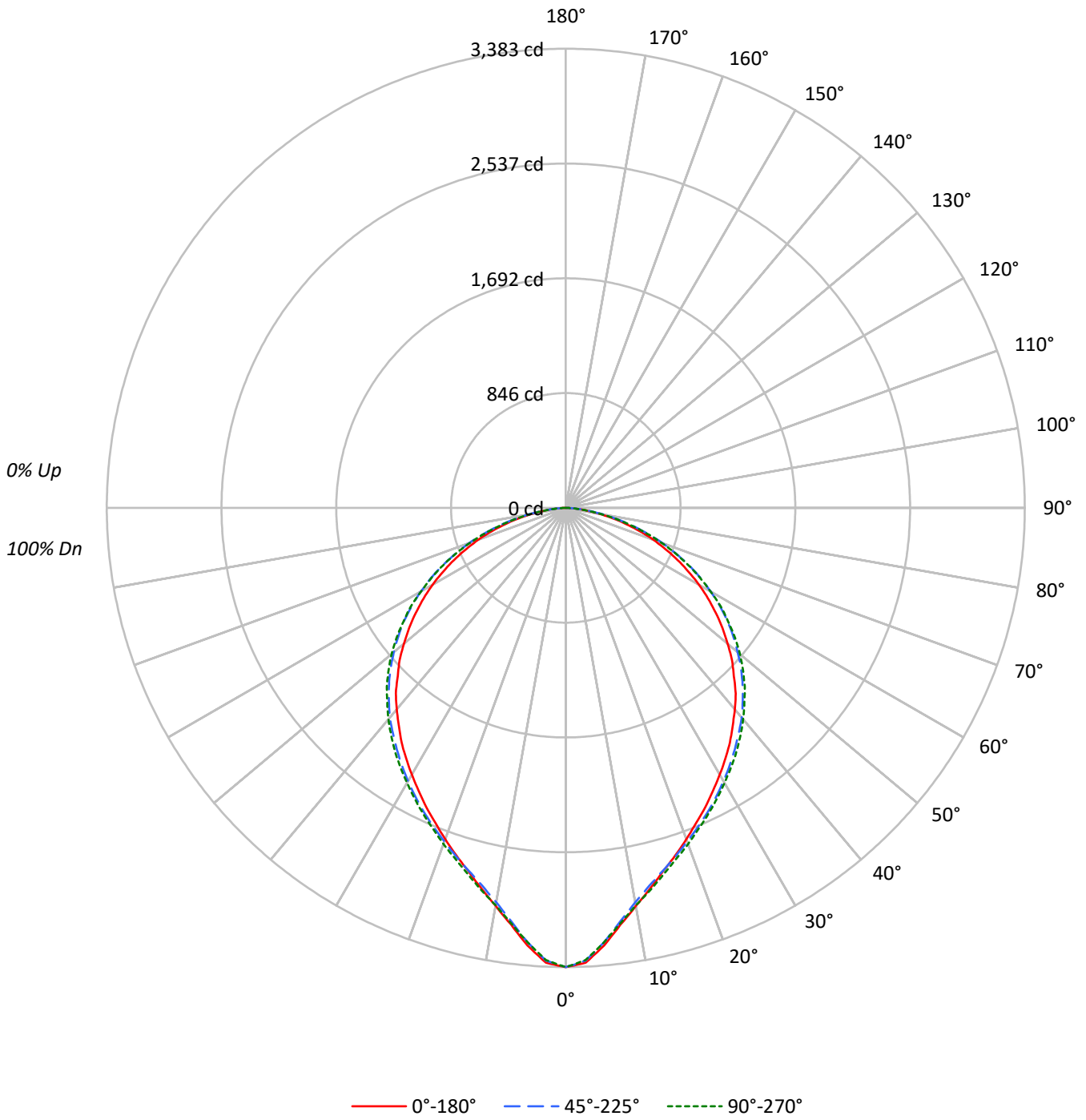
Lumens per Lamp: N/A
Luminaire Lumens: 7859.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					
RC	80				70				50				30					
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	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°	9105	9105	9105
5°	8742	8680	8680
10°	8136	8062	8125
15°	7721	7707	7782
20°	7438	7491	7549
25°	7225	7342	7385
30°	7051	7224	7269
35°	6929	7132	7205
40°	6807	7083	7142
45°	6667	7014	7097
50°	6520	6926	7019
55°	6338	6826	6854
60°	6111	6639	6625
65°	5792	6384	6341
70°	5408	5954	5880
75°	4773	5274	5221
80°	3877	4297	4086
85°	2689	2742	2637

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.0	3.8
10°-20°	783.1	10.0
20°-30°	1138.8	14.5
30°-40°	1355.1	17.2
40°-50°	1407.1	17.9
50°-60°	1274.7	16.2
60°-70°	961.9	12.2
70°-80°	524.1	6.7
80°-90°	115.2	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
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0°-30°	2220.9	28.3
0°-40°	3576.0	45.5
0°-60°	6257.8	79.6
0°-90°	7859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3383	3383	3383	3383	3383	
5°	3236	3229	3214	3212	3214	300
15°	2771	2764	2766	2785	2793	782
25°	2433	2453	2473	2493	2487	1121
35°	2109	2135	2171	2204	2193	1319
45°	1752	1783	1843	1863	1865	1354
55°	1351	1383	1455	1465	1461	1206
65°	910	936	1003	1001	996	899
75°	459	478	507	511	502	489
85°	87	88	89	88	85	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3383.4	3383.4	3383.4	3383.4	3383.4
2.5°	3353.8	3350.4	3339.4	3335.2	3334.3
5°	3236.3	3228.7	3213.5	3211.8	3213.5
7.5°	3096.0	3087.5	3072.3	3078.2	3085.8
10°	2977.6	2956.5	2950.5	2959.0	2973.4
12.5°	2871.9	2855.0	2849.9	2871.9	2882.1
15°	2771.3	2764.5	2766.3	2784.9	2793.3
17.5°	2684.3	2680.0	2691.0	2705.4	2709.6
20°	2597.2	2605.6	2615.8	2631.0	2636.0
22.5°	2511.8	2527.8	2544.8	2565.0	2558.3
25°	2433.2	2453.4	2472.9	2493.2	2487.3
27.5°	2349.4	2373.1	2400.2	2422.2	2413.7
30°	2269.1	2298.7	2324.9	2352.0	2339.3
32.5°	2189.7	2217.6	2248.8	2281.8	2267.4
35°	2109.3	2134.7	2171.1	2204.1	2193.1
37.5°	2020.6	2051.9	2093.3	2122.0	2114.5
40°	1937.7	1966.5	2016.4	2035.0	2033.2
42.5°	1854.0	1877.7	1930.1	1951.2	1947.9
45°	1751.8	1783.0	1843.0	1863.4	1865.0
47.5°	1661.3	1687.5	1751.8	1767.8	1771.2
50°	1557.3	1590.3	1654.5	1673.9	1676.5
52.5°	1455.0	1490.5	1556.4	1569.9	1572.5
55°	1351.0	1383.1	1455.0	1465.2	1460.9
57.5°	1242.0	1280.8	1346.8	1351.8	1356.1
60°	1135.4	1169.2	1233.5	1240.2	1231.0
62.5°	1019.6	1054.2	1120.2	1121.9	1114.2
65°	909.7	935.9	1002.6	1001.0	995.9
67.5°	794.7	826.8	875.9	877.5	873.4
70°	687.3	709.3	756.7	757.5	747.4
72.5°	571.5	595.2	633.2	628.2	625.6
75°	459.1	477.7	507.3	510.7	502.2
77.5°	355.9	369.5	391.4	388.9	379.6
80°	250.2	261.2	277.3	273.9	263.7
82.5°	159.8	166.6	176.7	172.5	168.2
85°	87.1	87.9	88.8	87.9	85.4
87.5°	32.1	33.0	33.0	32.1	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)