

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: P489821

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2STD-35-120-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: P489821
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-LD4-2STD-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

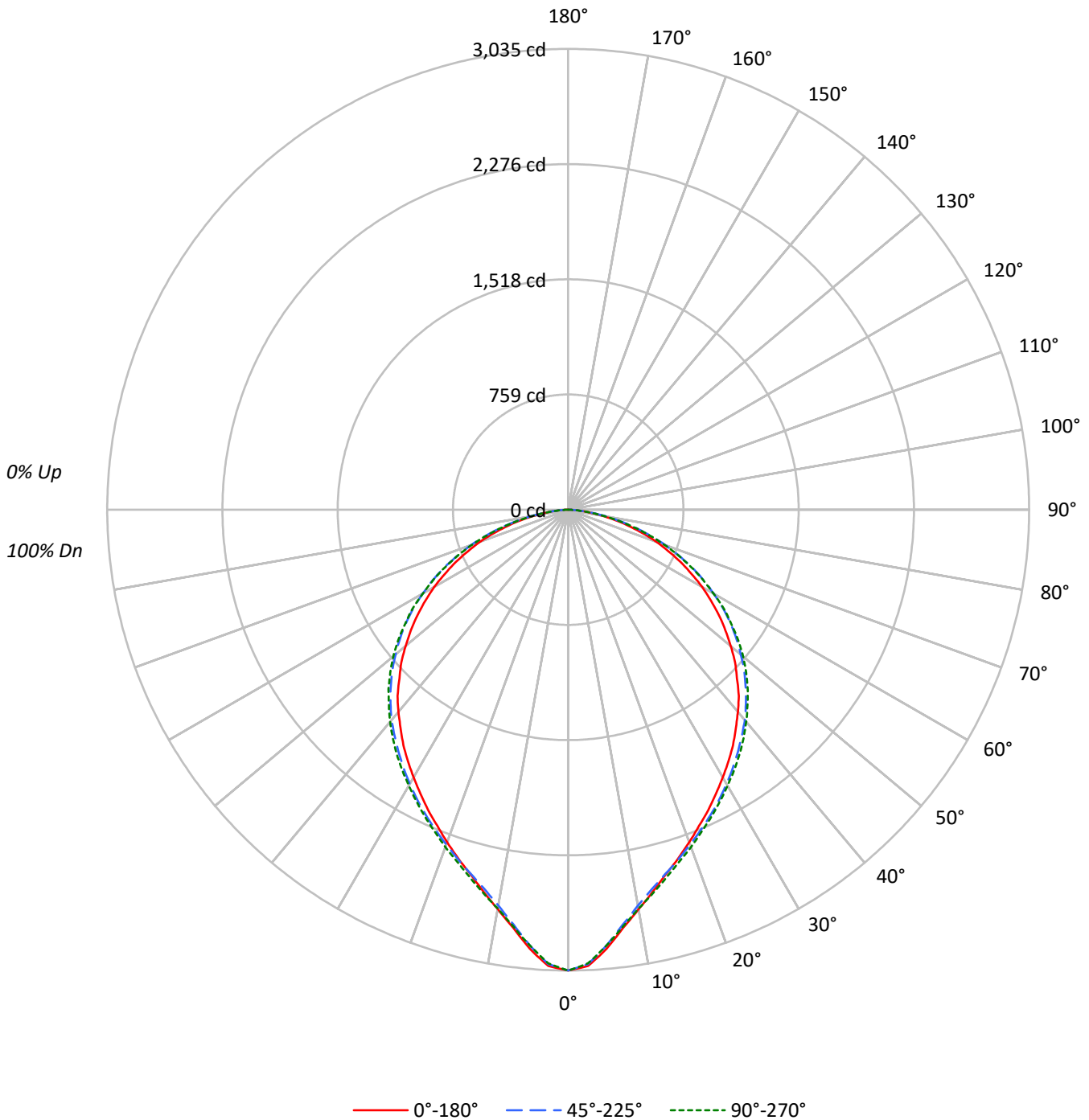
Lumens per Lamp: N/A
Luminaire Lumens: 7049.2 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4083	4083	4083
5°	3921	3893	3893
10°	3649	3616	3644
15°	3462	3456	3490
20°	3335	3359	3385
25°	3240	3293	3312
30°	3162	3240	3260
35°	3108	3199	3231
40°	3053	3177	3203
45°	2990	3146	3183
50°	2924	3106	3148
55°	2843	3061	3074
60°	2740	2977	2971
65°	2598	2863	2844
70°	2425	2670	2637
75°	2141	2365	2341
80°	1739	1927	1833
85°	1206	1229	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	3.8
10°-20°	702.4	10.0
20°-30°	1021.4	14.5
30°-40°	1215.5	17.2
40°-50°	1262.1	17.9
50°-60°	1143.4	16.2
60°-70°	862.8	12.2
70°-80°	470.1	6.7
80°-90°	103.3	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°	1992.0	28.3
0°-40°	3207.5	45.5
0°-60°	5613.0	79.6
0°-90°	7049.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7049.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3035	3035	3035	3035	3035	
5°	2903	2896	2882	2881	2882	269
15°	2486	2480	2481	2498	2506	702
25°	2182	2201	2218	2236	2231	1006
35°	1892	1915	1947	1977	1967	1183
45°	1571	1599	1653	1671	1673	1215
55°	1212	1241	1305	1314	1310	1082
65°	816	839	899	898	893	807
75°	412	428	455	458	450	439
85°	78	79	80	79	77	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3034.8	3034.8	3034.8	3034.8	3034.8
2.5°	3008.2	3005.2	2995.3	2991.5	2990.8
5°	2902.8	2896.0	2882.3	2880.9	2882.3
7.5°	2777.0	2769.4	2755.7	2761.0	2767.9
10°	2670.8	2651.8	2646.5	2654.1	2667.0
12.5°	2576.0	2560.8	2556.2	2576.0	2585.1
15°	2485.7	2479.7	2481.2	2497.9	2505.5
17.5°	2407.7	2403.9	2413.7	2426.6	2430.4
20°	2329.5	2337.2	2346.2	2359.9	2364.4
22.5°	2253.0	2267.3	2282.6	2300.7	2294.7
25°	2182.5	2200.6	2218.1	2236.3	2231.0
27.5°	2107.4	2128.6	2152.9	2172.6	2165.0
30°	2035.3	2061.8	2085.4	2109.6	2098.3
32.5°	1964.1	1989.1	2017.1	2046.7	2033.8
35°	1892.0	1914.8	1947.4	1977.0	1967.1
37.5°	1812.4	1840.4	1877.6	1903.3	1896.6
40°	1738.1	1763.9	1808.6	1825.3	1823.7
42.5°	1663.0	1684.2	1731.2	1750.2	1747.2
45°	1571.3	1599.3	1653.1	1671.4	1672.8
47.5°	1490.1	1513.6	1571.3	1585.6	1588.7
50°	1396.8	1426.4	1484.0	1501.4	1503.8
52.5°	1305.0	1336.9	1396.1	1408.2	1410.5
55°	1211.8	1240.6	1305.0	1314.2	1310.4
57.5°	1114.0	1148.9	1208.0	1212.5	1216.3
60°	1018.4	1048.7	1106.4	1112.4	1104.1
62.5°	914.5	945.6	1004.8	1006.3	999.4
65°	815.9	839.4	899.3	897.8	893.3
67.5°	712.8	741.6	785.6	787.1	783.4
70°	616.5	636.2	678.7	679.5	670.4
72.5°	512.6	533.8	567.9	563.4	561.2
75°	411.8	428.5	455.0	458.0	450.4
77.5°	319.3	331.4	351.1	348.9	340.5
80°	224.4	234.3	248.7	245.7	236.6
82.5°	143.3	149.4	158.5	154.7	150.9
85°	78.1	78.8	79.6	78.8	76.6
87.5°	28.8	29.6	29.6	28.8	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)