

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: P489353

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-4STD-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: P489353
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-24-2-INS-P12125-LD4-4STD-35-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

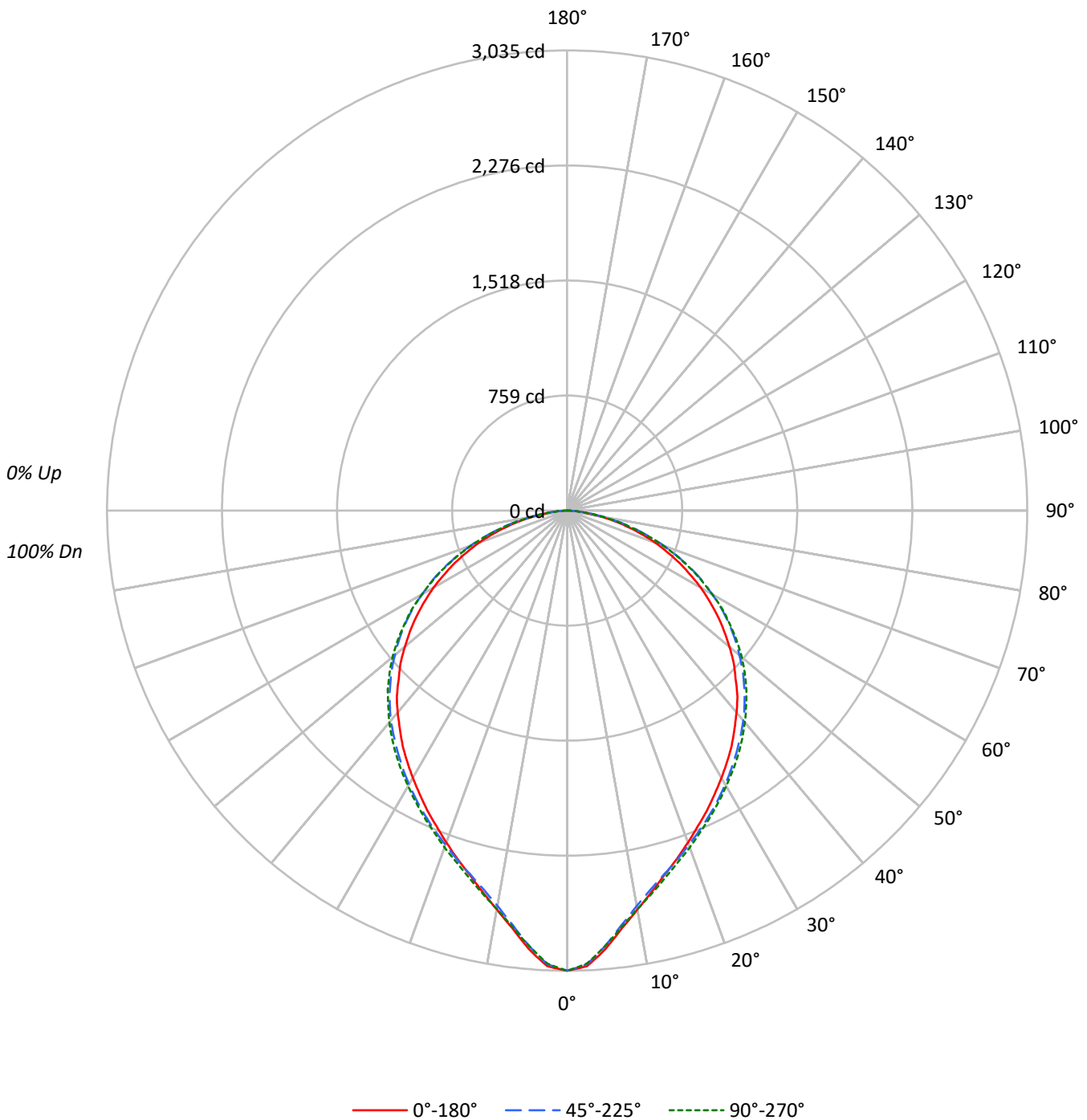
Lumens per Lamp: N/A
Luminaire Lumens: 7048.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P489353

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-35-120-EDD

Luminous Intensity Polar Plot





TEST NUMBER: P489353

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-35-120-EDD

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°	8166	8166	8166
5°	7841	7786	7786
10°	7298	7231	7287
15°	6925	6912	6980
20°	6671	6718	6771
25°	6480	6586	6624
30°	6324	6480	6520
35°	6215	6397	6462
40°	6105	6353	6406
45°	5979	6291	6366
50°	5848	6213	6295
55°	5685	6123	6147
60°	5480	5954	5942
65°	5195	5726	5687
70°	4851	5340	5274
75°	4281	4731	4683
80°	3477	3854	3667
85°	2411	2458	2365



TEST NUMBER: P489353

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-35-120-EDD

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°	1215.4	17.2
40°-50°	1262.1	17.9
50°-60°	1143.3	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°	1991.9	28.3
0°-40°	3207.4	45.5
0°-60°	5612.8	79.6
0°-90°	7048.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7048.9	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	2505	702
25°	2182	2200	2218	2236	2231	1006
35°	1892	1915	1947	1977	1967	1183
45°	1571	1599	1653	1671	1673	1214
55°	1212	1240	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	



TEST NUMBER: P489353

CATALOG NUMBER: CLM-24-2-INS-P12125-LD4-4STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3034.7	3034.7	3034.7	3034.7	3034.7
2.5°	3008.1	3005.1	2995.2	2991.4	2990.6
5°	2902.7	2895.9	2882.2	2880.7	2882.2
7.5°	2776.8	2769.2	2755.6	2760.9	2767.8
10°	2670.7	2651.7	2646.4	2654.0	2666.9
12.5°	2575.9	2560.7	2556.1	2575.9	2585.0
15°	2485.6	2479.6	2481.1	2497.8	2505.3
17.5°	2407.6	2403.8	2413.6	2426.5	2430.3
20°	2329.4	2337.1	2346.1	2359.8	2364.3
22.5°	2252.9	2267.2	2282.5	2300.6	2294.6
25°	2182.4	2200.5	2218.0	2236.2	2230.9
27.5°	2107.3	2128.5	2152.8	2172.5	2164.9
30°	2035.2	2061.8	2085.3	2109.5	2098.2
32.5°	1964.0	1989.0	2017.0	2046.6	2033.7
35°	1891.9	1914.7	1947.3	1976.9	1967.0
37.5°	1812.3	1840.4	1877.5	1903.3	1896.5
40°	1738.0	1763.8	1808.5	1825.2	1823.7
42.5°	1662.9	1684.2	1731.2	1750.1	1747.1
45°	1571.2	1599.2	1653.0	1671.3	1672.8
47.5°	1490.0	1513.6	1571.2	1585.6	1588.6
50°	1396.8	1426.4	1484.0	1501.4	1503.7
52.5°	1305.0	1336.8	1396.0	1408.1	1410.4
55°	1211.7	1240.5	1305.0	1314.1	1310.3
57.5°	1113.9	1148.8	1208.0	1212.5	1216.3
60°	1018.3	1048.7	1106.3	1112.4	1104.1
62.5°	914.5	945.6	1004.7	1006.2	999.4
65°	815.9	839.4	899.3	897.8	893.2
67.5°	712.8	741.6	785.6	787.1	783.3
70°	616.5	636.2	678.7	679.4	670.3
72.5°	512.6	533.8	567.9	563.4	561.2
75°	411.7	428.4	455.0	458.0	450.4
77.5°	319.3	331.4	351.1	348.8	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)