

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: P489387

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-30-120-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: P489387
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-LD4-5STD-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

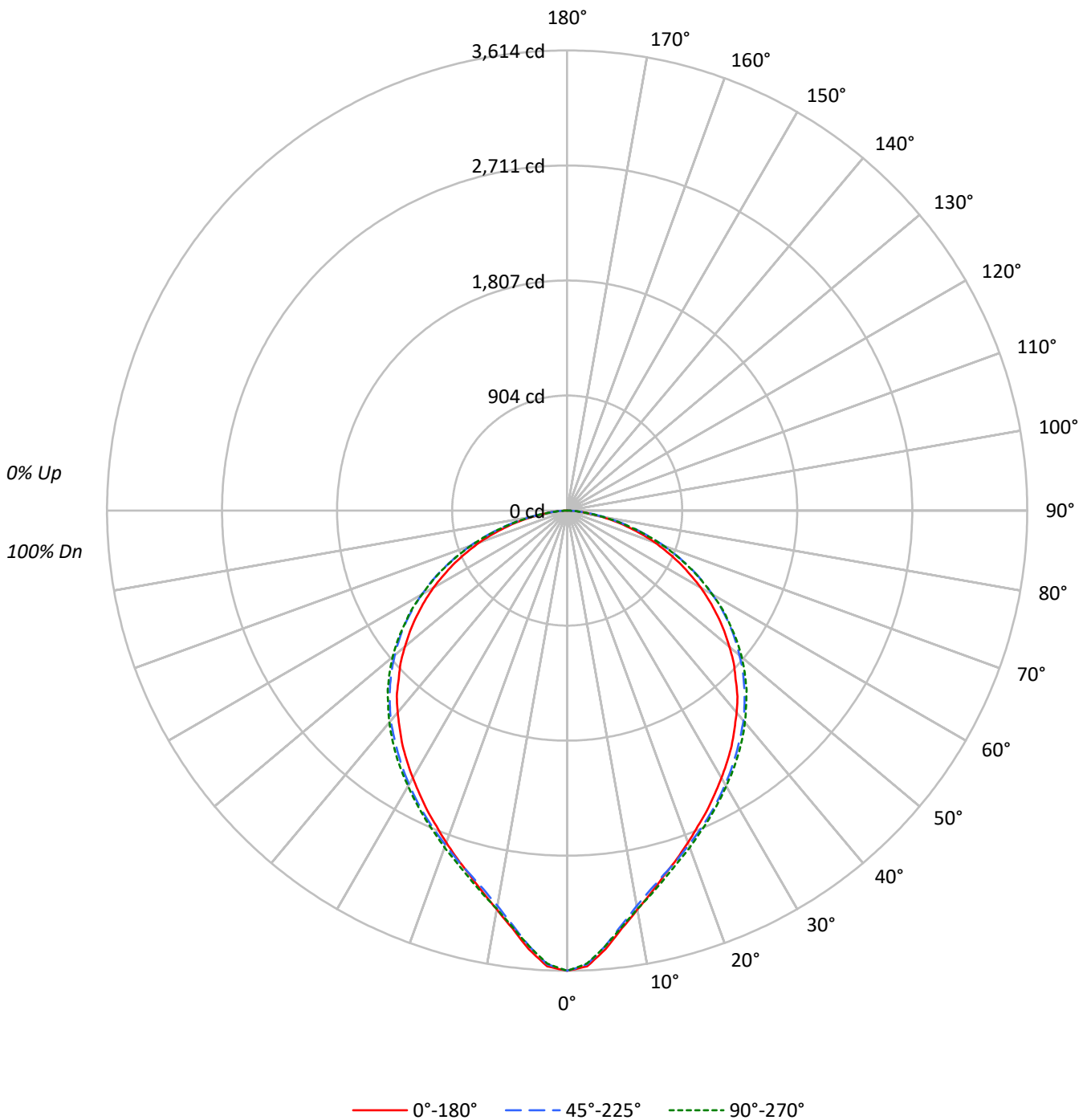
Lumens per Lamp: N/A
Luminaire Lumens: 8395.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	9726	9726	9726
5°	9338	9272	9272
10°	8691	8612	8679
15°	8247	8232	8313
20°	7945	8002	8064
25°	7717	7843	7889
30°	7532	7717	7765
35°	7402	7619	7696
40°	7271	7566	7630
45°	7121	7492	7582
50°	6964	7399	7497
55°	6770	7292	7322
60°	6527	7091	7077
65°	6187	6819	6774
70°	5777	6360	6282
75°	5099	5634	5577
80°	4142	4590	4365
85°	2871	2927	2816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.4	3.8
10°-20°	836.5	10.0
20°-30°	1216.4	14.5
30°-40°	1447.5	17.2
40°-50°	1503.1	17.9
50°-60°	1361.7	16.2
60°-70°	1027.5	12.2
70°-80°	559.9	6.7
80°-90°	123.0	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°	2372.3	28.3
0°-40°	3819.9	45.5
0°-60°	6684.6	79.6
0°-90°	8395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3614	3614	3614	3614	3614	
5°	3457	3449	3433	3431	3433	321
15°	2960	2953	2955	2975	2984	836
25°	2599	2621	2642	2663	2657	1198
35°	2253	2280	2319	2354	2343	1409
45°	1871	1905	1969	1990	1992	1446
55°	1443	1477	1554	1565	1561	1289
65°	972	1000	1071	1069	1064	961
75°	490	510	542	546	536	522
85°	93	94	95	94	91	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3614.2	3614.2	3614.2	3614.2	3614.2
2.5°	3582.6	3578.9	3567.2	3562.7	3561.8
5°	3457.0	3448.9	3432.6	3430.9	3432.6
7.5°	3307.1	3298.1	3281.9	3288.2	3296.3
10°	3180.7	3158.1	3151.7	3160.8	3176.2
12.5°	3067.8	3049.7	3044.3	3067.8	3078.7
15°	2960.3	2953.1	2954.9	2974.8	2983.8
17.5°	2867.3	2862.8	2874.5	2889.9	2894.4
20°	2774.3	2783.4	2794.2	2810.4	2815.8
22.5°	2683.1	2700.2	2718.3	2740.0	2732.8
25°	2599.1	2620.8	2641.6	2663.2	2656.9
27.5°	2509.7	2534.9	2563.9	2587.4	2578.3
30°	2423.9	2455.5	2483.5	2512.4	2498.9
32.5°	2339.0	2368.8	2402.2	2437.4	2422.1
35°	2253.2	2280.3	2319.2	2354.4	2342.6
37.5°	2158.4	2191.8	2236.0	2266.7	2258.7
40°	2069.9	2100.6	2153.9	2173.8	2171.9
42.5°	1980.5	2005.8	2061.8	2084.3	2080.7
45°	1871.2	1904.6	1968.7	1990.4	1992.2
47.5°	1774.6	1802.6	1871.2	1888.3	1892.0
50°	1663.5	1698.7	1767.4	1788.1	1790.9
52.5°	1554.2	1592.1	1662.6	1677.0	1679.8
55°	1443.1	1477.4	1554.2	1565.1	1560.6
57.5°	1326.7	1368.2	1438.7	1444.0	1448.6
60°	1212.8	1249.0	1317.6	1324.8	1314.9
62.5°	1089.1	1126.1	1196.6	1198.4	1190.2
65°	971.7	999.7	1071.0	1069.3	1063.8
67.5°	848.9	883.2	935.6	937.4	932.9
70°	734.2	757.7	808.3	809.2	798.4
72.5°	610.5	635.8	676.4	671.0	668.3
75°	490.4	510.3	541.9	545.5	536.4
77.5°	380.2	394.6	418.1	415.5	405.5
80°	267.3	279.0	296.2	292.6	281.7
82.5°	170.6	177.9	188.8	184.2	179.7
85°	93.0	93.9	94.8	93.9	91.2
87.5°	34.3	35.2	35.2	34.3	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)