

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: P488819

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3HI-20-120-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: P488819
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-LD4-3HI-20-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

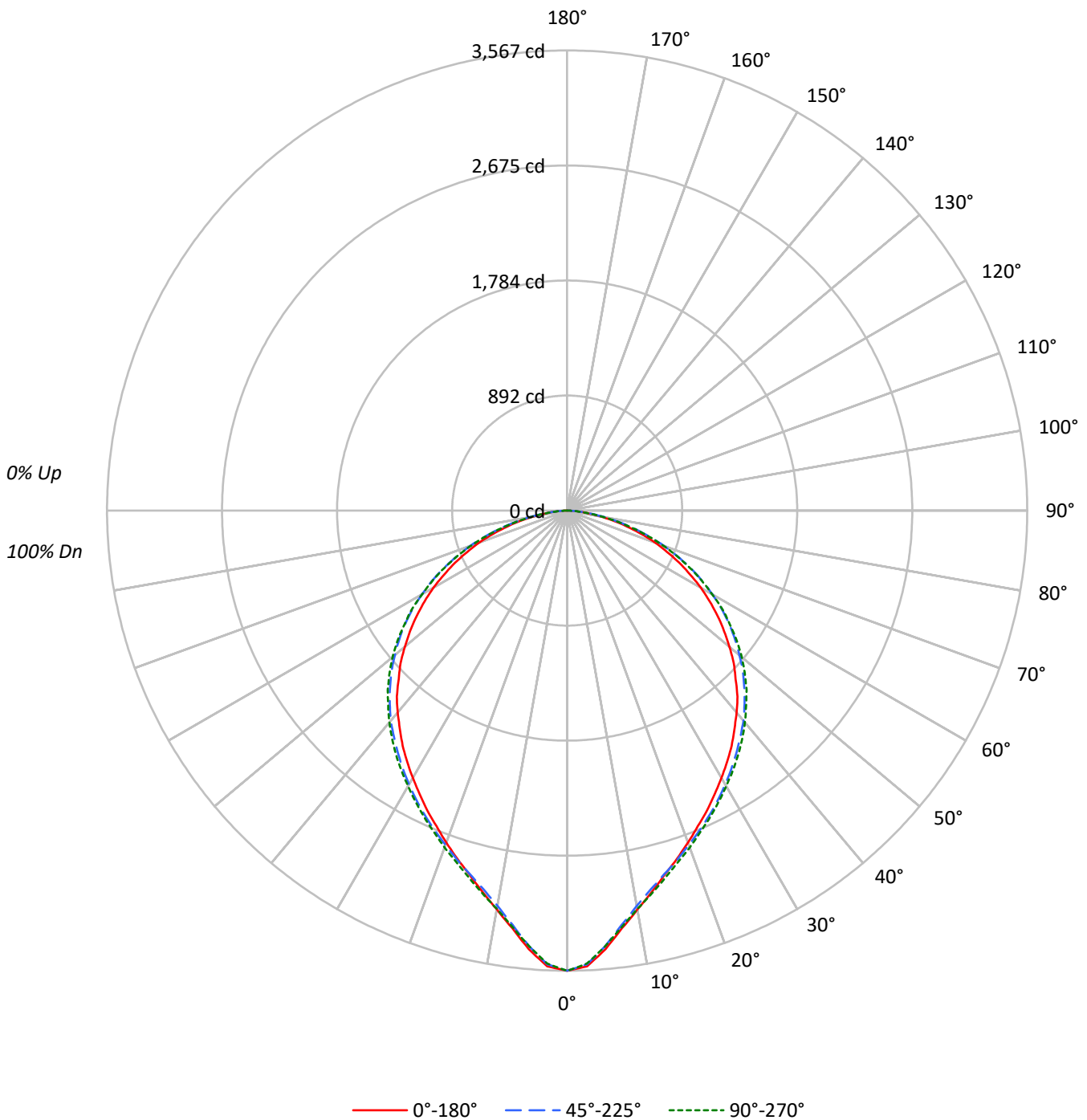
Lumens per Lamp: N/A
Luminaire Lumens: 8285.5 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	9599	9599	9599
5°	9217	9152	9152
10°	8578	8500	8566
15°	8140	8125	8204
20°	7841	7897	7958
25°	7617	7741	7786
30°	7433	7616	7663
35°	7305	7519	7595
40°	7176	7468	7530
45°	7028	7394	7483
50°	6873	7302	7399
55°	6682	7196	7226
60°	6442	6999	6985
65°	6106	6731	6685
70°	5701	6276	6199
75°	5032	5560	5504
80°	4088	4531	4310
85°	2834	2890	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	3.8
10°-20°	825.6	10.0
20°-30°	1200.6	14.5
30°-40°	1428.7	17.2
40°-50°	1483.4	17.9
50°-60°	1343.9	16.2
60°-70°	1014.1	12.2
70°-80°	552.6	6.7
80°-90°	121.4	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°	2341.4	28.3
0°-40°	3770.0	45.5
0°-60°	6597.4	79.6
0°-90°	8285.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8285.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3567	3567	3567	3567	3567	
5°	3412	3404	3388	3386	3388	317
15°	2922	2915	2916	2936	2945	825
25°	2565	2587	2607	2628	2622	1182
35°	2224	2251	2289	2324	2312	1390
45°	1847	1880	1943	1964	1966	1428
55°	1424	1458	1534	1545	1540	1272
65°	959	987	1057	1055	1050	948
75°	484	504	535	538	529	516
85°	92	93	94	93	90	116
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3567.0	3567.0	3567.0	3567.0	3567.0
2.5°	3535.8	3532.3	3520.7	3516.2	3515.3
5°	3412.0	3403.9	3387.9	3386.1	3387.9
7.5°	3264.0	3255.0	3239.1	3245.3	3253.3
10°	3139.2	3116.9	3110.6	3119.6	3134.7
12.5°	3027.8	3009.9	3004.6	3027.8	3038.5
15°	2921.7	2914.6	2916.4	2936.0	2944.9
17.5°	2829.9	2825.5	2837.1	2852.2	2856.7
20°	2738.1	2747.0	2757.7	2773.8	2779.1
22.5°	2648.1	2665.0	2682.9	2704.2	2697.1
25°	2565.2	2586.6	2607.1	2628.5	2622.3
27.5°	2476.9	2501.9	2530.4	2553.6	2544.7
30°	2392.2	2423.5	2451.1	2479.6	2466.3
32.5°	2308.5	2337.9	2370.9	2405.7	2390.5
35°	2223.8	2250.6	2288.9	2323.7	2312.1
37.5°	2130.3	2163.2	2206.9	2237.2	2229.2
40°	2042.9	2073.2	2125.8	2145.4	2143.6
42.5°	1954.6	1979.6	2034.9	2057.1	2053.6
45°	1846.8	1879.8	1943.0	1964.5	1966.2
47.5°	1751.4	1779.1	1846.8	1863.7	1867.3
50°	1641.8	1676.6	1744.3	1764.8	1767.5
52.5°	1533.9	1571.3	1640.9	1655.1	1657.9
55°	1424.3	1458.2	1533.9	1544.7	1540.2
57.5°	1309.4	1350.3	1419.9	1425.2	1429.7
60°	1197.0	1232.7	1300.4	1307.5	1297.8
62.5°	1074.9	1111.5	1181.0	1182.8	1174.7
65°	959.0	986.7	1057.1	1055.3	1049.9
67.5°	837.8	871.7	923.4	925.2	920.8
70°	724.6	747.8	797.7	798.6	787.9
72.5°	602.6	627.5	667.6	662.3	659.6
75°	484.0	503.6	534.8	538.4	529.4
77.5°	375.3	389.5	412.7	410.0	400.2
80°	263.8	275.4	292.4	288.8	278.1
82.5°	168.4	175.6	186.3	181.8	177.4
85°	91.8	92.7	93.6	92.7	90.0
87.5°	33.9	34.8	34.8	33.9	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)