

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: P488852

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-3STD-50-120-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: P488852
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-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

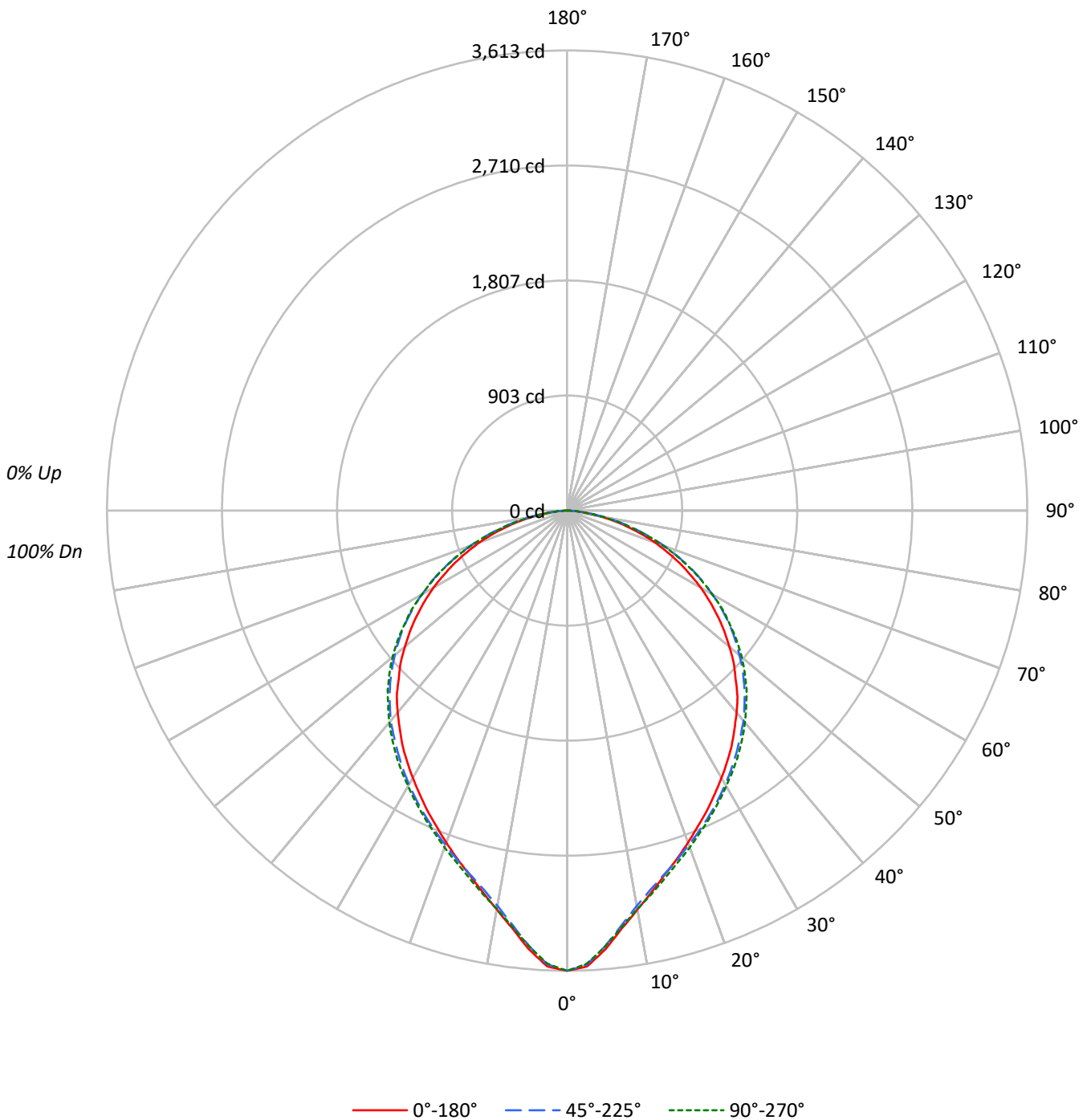
Lumens per Lamp: N/A
Luminaire Lumens: 8393.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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				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°	9723	9723	9723
5°	9336	9270	9270
10°	8689	8610	8677
15°	8245	8230	8311
20°	7943	8000	8062
25°	7715	7841	7887
30°	7530	7715	7763
35°	7400	7617	7694
40°	7269	7565	7628
45°	7120	7491	7580
50°	6962	7397	7495
55°	6769	7290	7320
60°	6526	7090	7075
65°	6186	6818	6772
70°	5775	6358	6280
75°	5098	5633	5576
80°	4141	4590	4365
85°	2871	2927	2816



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.3	3.8
10°-20°	836.3	10.0
20°-30°	1216.2	14.5
30°-40°	1447.2	17.2
40°-50°	1502.7	17.9
50°-60°	1361.4	16.2
60°-70°	1027.3	12.2
70°-80°	559.7	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°	2371.8	28.3
0°-40°	3819.0	45.5
0°-60°	6683.0	79.6
0°-90°	8393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3613	3613	3613	3613	3613	
5°	3456	3448	3432	3430	3432	321
15°	2960	2952	2954	2974	2983	835
25°	2598	2620	2641	2663	2656	1197
35°	2253	2280	2319	2354	2342	1408
45°	1871	1904	1968	1990	1992	1446
55°	1443	1477	1554	1565	1560	1288
65°	972	1000	1071	1069	1064	960
75°	490	510	542	545	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°	3613.3	3613.3	3613.3	3613.3	3613.3
2.5°	3581.7	3578.1	3566.4	3561.8	3560.9
5°	3456.2	3448.1	3431.8	3430.0	3431.8
7.5°	3306.3	3297.3	3281.1	3287.4	3295.5
10°	3179.9	3157.4	3151.0	3160.1	3175.4
12.5°	3067.0	3049.0	3043.6	3067.0	3077.9
15°	2959.6	2952.4	2954.2	2974.1	2983.1
17.5°	2866.6	2862.1	2873.9	2889.2	2893.7
20°	2773.6	2782.7	2793.5	2809.8	2815.2
22.5°	2682.5	2699.6	2717.7	2739.3	2732.1
25°	2598.5	2620.1	2640.9	2662.6	2656.3
27.5°	2509.1	2534.3	2563.3	2586.8	2577.7
30°	2423.3	2454.9	2482.9	2511.8	2498.3
32.5°	2338.5	2368.3	2401.6	2436.9	2421.5
35°	2252.7	2279.8	2318.6	2353.8	2342.1
37.5°	2157.9	2191.3	2235.5	2266.2	2258.1
40°	2069.4	2100.1	2153.4	2173.2	2171.4
42.5°	1980.0	2005.3	2061.3	2083.8	2080.2
45°	1870.8	1904.2	1968.3	1990.0	1991.7
47.5°	1774.2	1802.2	1870.8	1887.9	1891.5
50°	1663.1	1698.3	1766.9	1787.7	1790.4
52.5°	1553.8	1591.7	1662.2	1676.6	1679.4
55°	1442.8	1477.1	1553.8	1564.7	1560.2
57.5°	1326.3	1367.9	1438.3	1443.7	1448.2
60°	1212.5	1248.7	1317.3	1324.5	1314.6
62.5°	1088.9	1125.9	1196.3	1198.1	1190.0
65°	971.5	999.5	1070.8	1069.0	1063.6
67.5°	848.7	883.0	935.4	937.2	932.7
70°	734.0	757.5	808.1	809.0	798.2
72.5°	610.4	635.6	676.2	670.8	668.2
75°	490.3	510.1	541.8	545.4	536.3
77.5°	380.1	394.6	418.0	415.4	405.4
80°	267.2	279.0	296.2	292.6	281.7
82.5°	170.6	177.9	188.7	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)