

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: P489858

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3STD-40-120-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: P489858
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-LD4-3STD-40-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

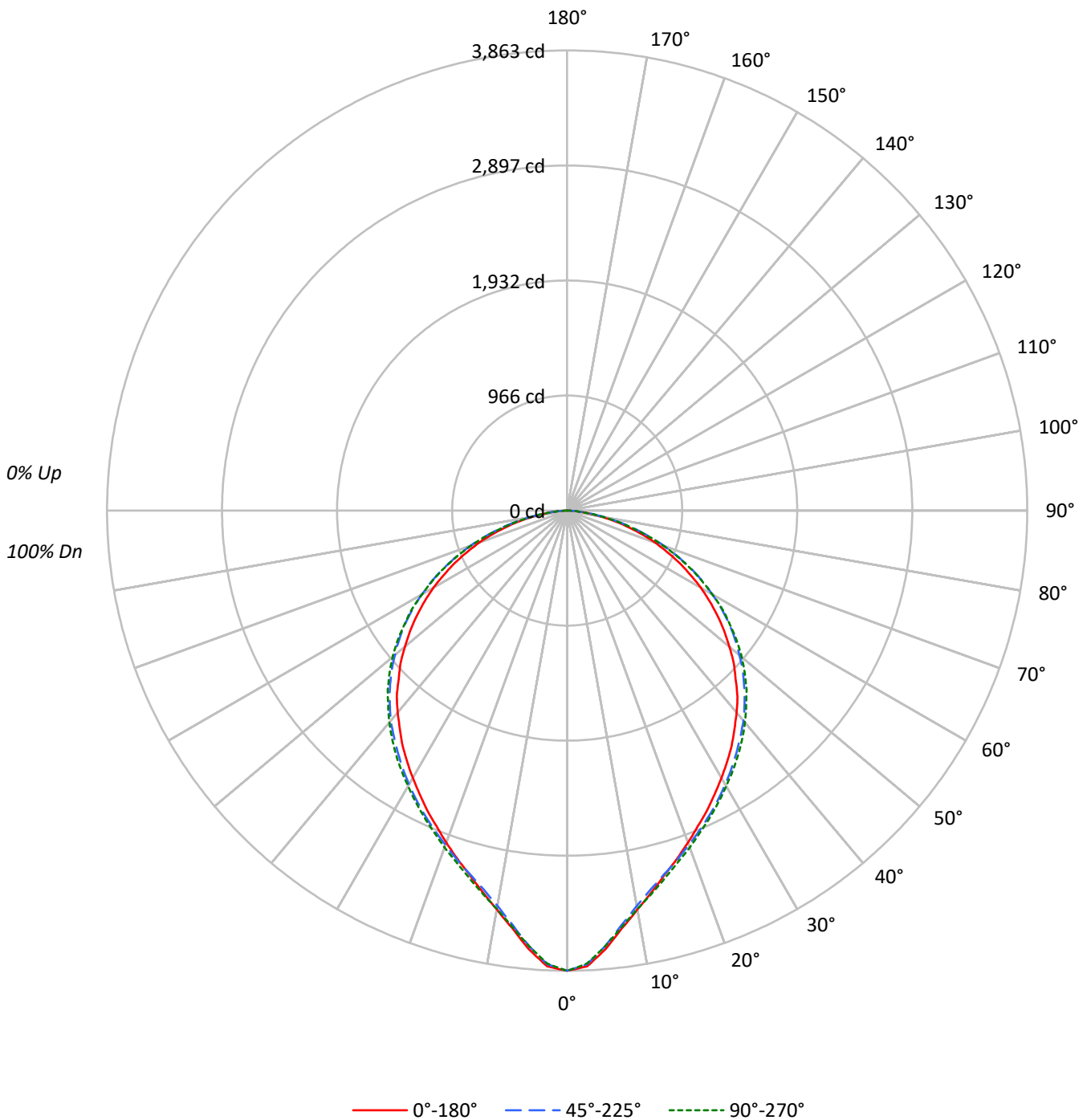
Lumens per Lamp: N/A
Luminaire Lumens: 8973.3 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5198	5198	5198
5°	4991	4956	4956
10°	4645	4603	4638
15°	4408	4400	4443
20°	4246	4276	4310
25°	4124	4192	4216
30°	4025	4124	4150
35°	3956	4072	4113
40°	3886	4044	4078
45°	3806	4004	4052
50°	3722	3954	4007
55°	3618	3897	3913
60°	3489	3790	3782
65°	3307	3645	3620
70°	3087	3399	3357
75°	2725	3011	2981
80°	2214	2453	2333
85°	1535	1564	1505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	3.8
10°-20°	894.1	10.0
20°-30°	1300.2	14.5
30°-40°	1547.3	17.2
40°-50°	1606.6	17.9
50°-60°	1455.5	16.2
60°-70°	1098.3	12.2
70°-80°	598.4	6.7
80°-90°	131.5	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°	2535.7	28.3
0°-40°	4083.0	45.5
0°-60°	7145.1	79.6
0°-90°	8973.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8973.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3863	3863	3863	3863	3863	
5°	3695	3686	3669	3667	3669	343
15°	3164	3156	3158	3180	3189	893
25°	2778	2801	2824	2847	2840	1280
35°	2408	2437	2479	2517	2504	1506
45°	2000	2036	2104	2128	2129	1546
55°	1542	1579	1661	1673	1668	1377
65°	1039	1069	1145	1143	1137	1027
75°	524	545	579	583	573	558
85°	99	100	101	100	98	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3863.1	3863.1	3863.1	3863.1	3863.1
2.5°	3829.3	3825.5	3812.9	3808.1	3807.1
5°	3695.2	3686.5	3669.1	3667.2	3669.1
7.5°	3534.9	3525.3	3507.9	3514.7	3523.4
10°	3399.8	3375.7	3368.9	3378.5	3395.0
12.5°	3279.1	3259.8	3254.0	3279.1	3290.7
15°	3164.2	3156.5	3158.5	3179.7	3189.3
17.5°	3064.9	3060.0	3072.6	3089.0	3093.8
20°	2965.4	2975.1	2986.7	3004.1	3009.8
22.5°	2867.9	2886.2	2905.6	2928.7	2921.0
25°	2778.2	2801.3	2823.5	2846.7	2839.9
27.5°	2682.6	2709.6	2740.5	2765.6	2755.9
30°	2590.8	2624.6	2654.6	2685.4	2671.0
32.5°	2500.2	2532.0	2567.7	2605.4	2588.9
35°	2408.4	2437.4	2478.9	2516.6	2504.0
37.5°	2307.1	2342.8	2390.0	2422.9	2414.3
40°	2212.5	2245.3	2302.2	2323.5	2321.5
42.5°	2116.9	2144.0	2203.8	2227.9	2224.1
45°	2000.1	2035.8	2104.3	2127.6	2129.4
47.5°	1896.8	1926.8	2000.1	2018.4	2022.3
50°	1778.1	1815.8	1889.1	1911.3	1914.2
52.5°	1661.2	1701.8	1777.1	1792.5	1795.5
55°	1542.5	1579.2	1661.2	1672.9	1668.1
57.5°	1418.0	1462.4	1537.8	1543.5	1548.3
60°	1296.4	1335.0	1408.4	1416.1	1405.5
62.5°	1164.2	1203.7	1279.0	1280.9	1272.2
65°	1038.6	1068.6	1144.8	1142.9	1137.1
67.5°	907.3	944.0	1000.1	1002.0	997.2
70°	784.8	809.9	863.9	864.9	853.4
72.5°	652.6	679.6	723.0	717.2	714.4
75°	524.2	545.4	579.2	583.1	573.4
77.5°	406.4	421.8	446.9	444.1	433.4
80°	285.7	298.3	316.6	312.8	301.1
82.5°	182.4	190.2	201.8	196.9	192.1
85°	99.4	100.4	101.3	100.4	97.5
87.5°	36.7	37.7	37.7	36.7	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)