

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: P489796

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2HI-35-120-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: P489796
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-LD4-2HI-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

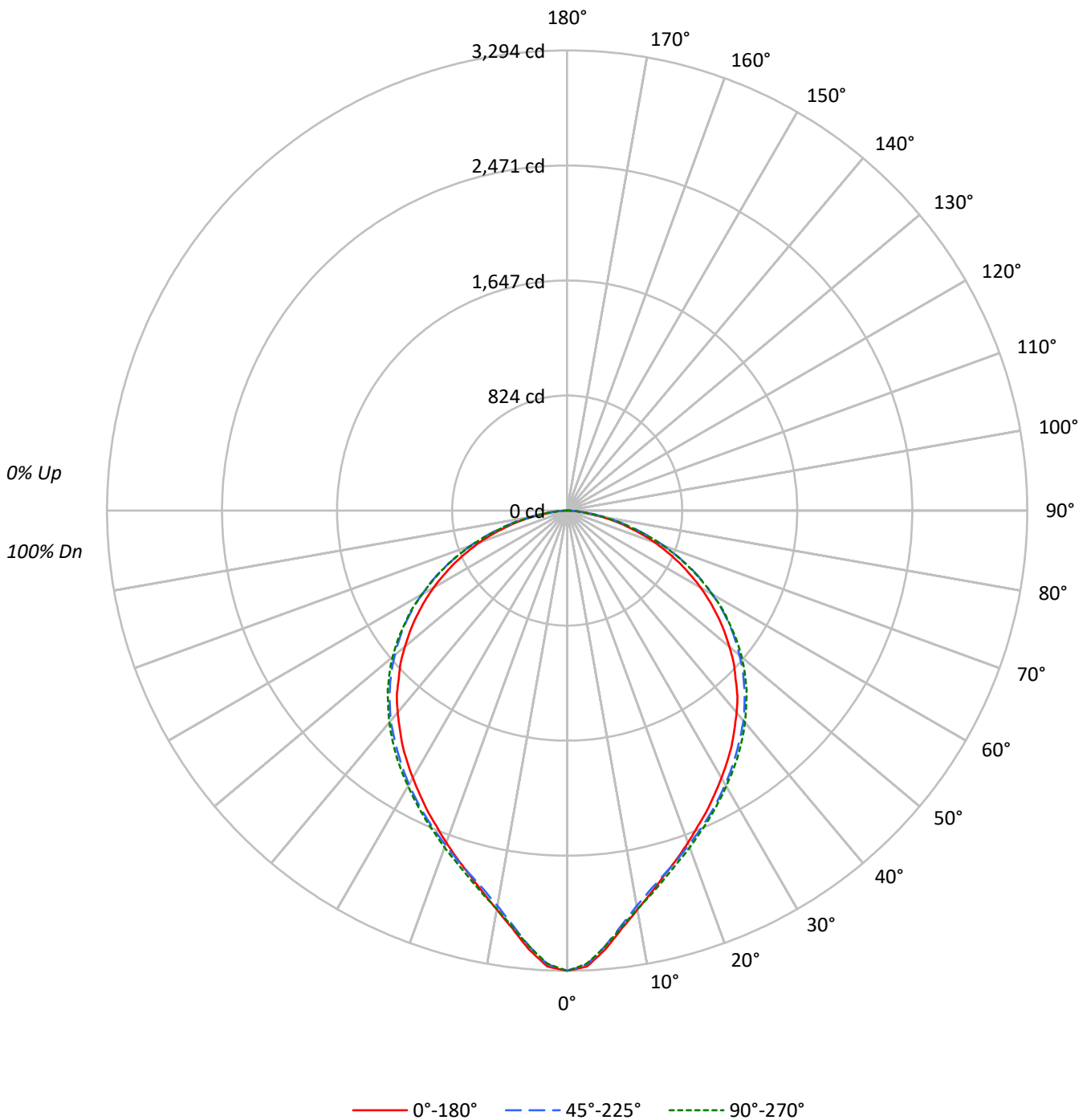
Lumens per Lamp: N/A
Luminaire Lumens: 7652.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	4432	4432	4432
5°	4256	4226	4226
10°	3961	3925	3955
15°	3759	3752	3788
20°	3621	3647	3675
25°	3517	3575	3595
30°	3432	3517	3539
35°	3373	3472	3507
40°	3314	3448	3477
45°	3245	3415	3455
50°	3174	3372	3417
55°	3086	3323	3337
60°	2975	3232	3225
65°	2820	3108	3087
70°	2633	2898	2863
75°	2324	2568	2542
80°	1888	2092	1990
85°	1309	1334	1283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.1	3.8
10°-20°	762.5	10.0
20°-30°	1108.8	14.5
30°-40°	1319.4	17.2
40°-50°	1370.0	17.9
50°-60°	1241.2	16.2
60°-70°	936.6	12.2
70°-80°	510.3	6.7
80°-90°	112.1	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°	2162.4	28.3
0°-40°	3481.8	45.5
0°-60°	6093.0	79.6
0°-90°	7652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3294	3294	3294	3294	3294	
5°	3151	3144	3129	3127	3129	292
15°	2698	2692	2693	2712	2720	762
25°	2369	2389	2408	2428	2422	1092
35°	2054	2078	2114	2146	2135	1284
45°	1706	1736	1794	1814	1816	1318
55°	1315	1347	1417	1427	1422	1174
65°	886	911	976	975	970	876
75°	447	465	494	497	489	476
85°	85	86	86	86	83	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3294.3	3294.3	3294.3	3294.3	3294.3
2.5°	3265.5	3262.2	3251.5	3247.4	3246.5
5°	3151.1	3143.7	3128.8	3127.2	3128.8
7.5°	3014.4	3006.2	2991.4	2997.1	3004.6
10°	2899.2	2878.6	2872.8	2881.1	2895.1
12.5°	2796.3	2779.8	2774.8	2796.3	2806.2
15°	2698.3	2691.7	2693.4	2711.5	2719.7
17.5°	2613.6	2609.4	2620.1	2634.1	2638.3
20°	2528.8	2537.0	2546.9	2561.7	2566.6
22.5°	2445.6	2461.2	2477.7	2497.5	2490.9
25°	2369.1	2388.8	2407.8	2427.5	2421.8
27.5°	2287.6	2310.6	2337.0	2358.4	2350.1
30°	2209.3	2238.2	2263.7	2290.0	2277.7
32.5°	2132.0	2159.2	2189.6	2221.7	2207.7
35°	2053.8	2078.5	2113.9	2146.0	2135.3
37.5°	1967.4	1997.8	2038.1	2066.1	2058.8
40°	1886.7	1914.7	1963.2	1981.4	1979.7
42.5°	1805.2	1828.3	1879.3	1899.9	1896.6
45°	1705.6	1736.1	1794.5	1814.3	1815.9
47.5°	1617.5	1643.1	1705.6	1721.2	1724.5
50°	1516.3	1548.4	1610.9	1629.8	1632.4
52.5°	1416.6	1451.2	1515.4	1528.6	1531.1
55°	1315.4	1346.7	1416.6	1426.6	1422.4
57.5°	1209.2	1247.1	1311.3	1316.2	1320.4
60°	1105.5	1138.4	1201.0	1207.6	1198.5
62.5°	992.7	1026.5	1090.7	1092.3	1084.9
65°	885.7	911.2	976.2	974.6	969.7
67.5°	773.7	805.0	852.8	854.4	850.4
70°	669.2	690.6	736.7	737.6	727.7
72.5°	556.5	579.5	616.5	611.6	609.2
75°	447.0	465.1	493.9	497.2	489.0
77.5°	346.6	359.7	381.1	378.7	369.6
80°	243.6	254.3	270.0	266.7	256.8
82.5°	155.5	162.2	172.1	167.9	163.8
85°	84.8	85.6	86.4	85.6	83.1
87.5°	31.3	32.1	32.1	31.3	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)