

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: P488781

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-50-120-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: P488781
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-LD4-1STD-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

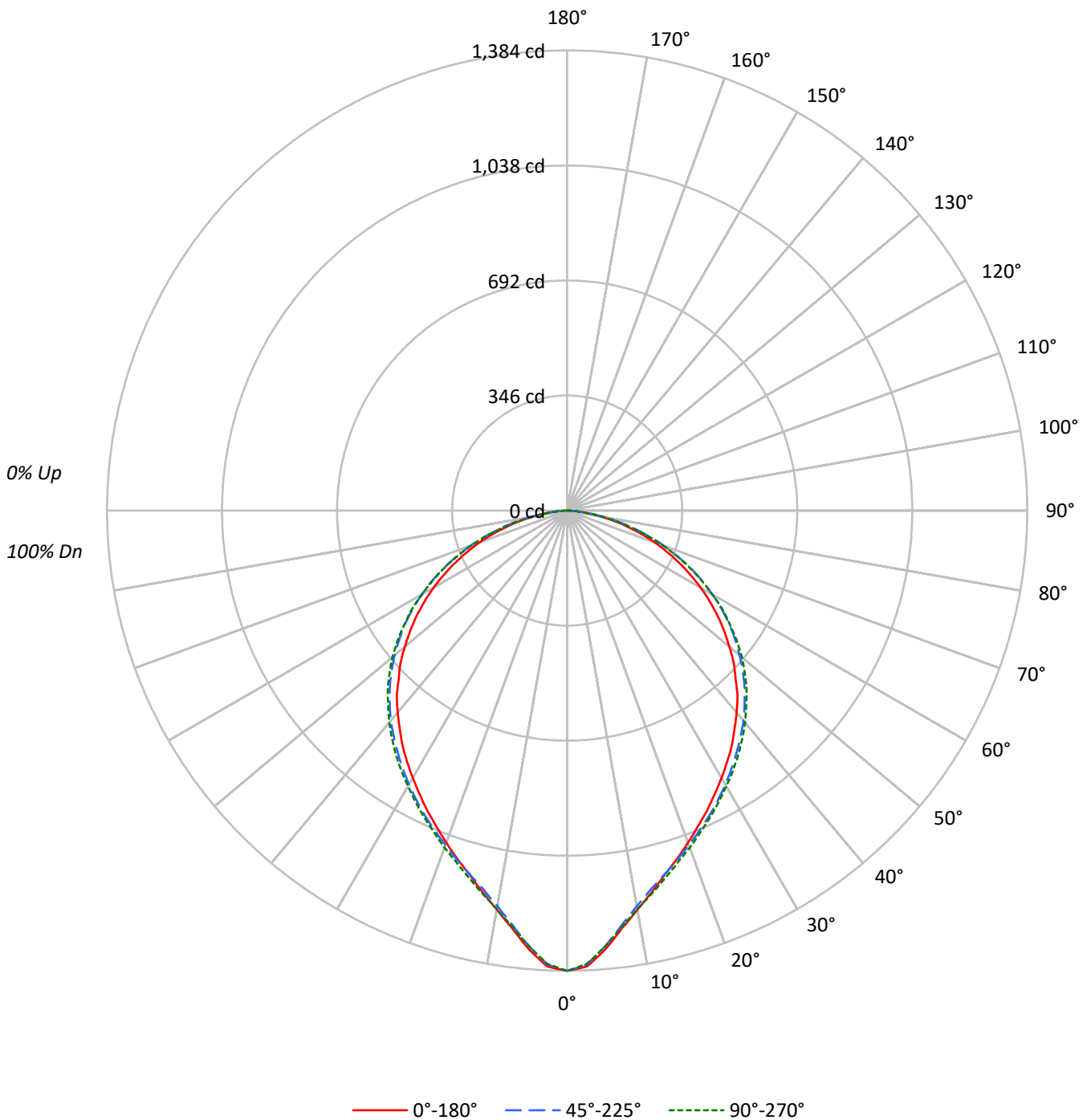
Lumens per Lamp: N/A
Luminaire Lumens: 3215.7 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3725	3725	3725
5°	3577	3552	3552
10°	3329	3299	3324
15°	3159	3153	3184
20°	3043	3065	3089
25°	2956	3004	3022
30°	2885	2956	2974
35°	2835	2918	2948
40°	2785	2898	2923
45°	2728	2870	2904
50°	2668	2834	2872
55°	2594	2793	2805
60°	2500	2716	2711
65°	2370	2613	2595
70°	2212	2436	2406
75°	1953	2158	2137
80°	1587	1759	1672
85°	1099	1121	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.8
10°-20°	320.4	10.0
20°-30°	466.0	14.5
30°-40°	554.5	17.2
40°-50°	575.7	17.9
50°-60°	521.6	16.2
60°-70°	393.6	12.2
70°-80°	214.5	6.7
80°-90°	47.1	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°	908.7	28.3
0°-40°	1463.2	45.5
0°-60°	2560.6	79.6
0°-90°	3215.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3215.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1324	1321	1315	1314	1315	123
15°	1134	1131	1132	1140	1143	320
25°	996	1004	1012	1020	1018	459
35°	863	874	888	902	897	540
45°	717	730	754	762	763	554
55°	553	566	595	600	598	494
65°	372	383	410	410	408	368
75°	188	196	208	209	206	200
85°	36	36	36	36	35	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.4	1384.4	1384.4	1384.4	1384.4
2.5°	1372.3	1370.9	1366.4	1364.7	1364.3
5°	1324.2	1321.1	1314.9	1314.2	1314.9
7.5°	1266.8	1263.3	1257.1	1259.5	1262.6
10°	1218.4	1209.7	1207.3	1210.7	1216.6
12.5°	1175.1	1168.2	1166.1	1175.1	1179.3
15°	1133.9	1131.2	1131.9	1139.5	1142.9
17.5°	1098.3	1096.6	1101.1	1107.0	1108.7
20°	1062.7	1066.2	1070.3	1076.5	1078.6
22.5°	1027.8	1034.3	1041.3	1049.5	1046.8
25°	995.6	1003.9	1011.9	1020.1	1017.7
27.5°	961.3	971.0	982.1	991.1	987.6
30°	928.5	940.6	951.3	962.4	957.2
32.5°	896.0	907.4	920.2	933.7	927.8
35°	863.1	873.5	888.4	901.8	897.3
37.5°	826.8	839.6	856.5	868.3	865.2
40°	792.9	804.6	825.0	832.7	832.0
42.5°	758.6	768.3	789.8	798.4	797.0
45°	716.8	729.6	754.1	762.4	763.1
47.5°	679.8	690.5	716.8	723.3	724.7
50°	637.2	650.7	677.0	684.9	686.0
52.5°	595.3	609.9	636.9	642.4	643.4
55°	552.8	565.9	595.3	599.5	597.8
57.5°	508.2	524.1	551.1	553.1	554.9
60°	464.6	478.4	504.7	507.5	503.7
62.5°	417.2	431.4	458.4	459.0	455.9
65°	372.2	382.9	410.3	409.6	407.5
67.5°	325.2	338.3	358.4	359.1	357.4
70°	281.2	290.2	309.6	310.0	305.8
72.5°	233.9	243.5	259.1	257.0	256.0
75°	187.8	195.5	207.6	209.0	205.5
77.5°	145.6	151.2	160.2	159.1	155.3
80°	102.4	106.9	113.5	112.1	107.9
82.5°	65.4	68.2	72.3	70.6	68.8
85°	35.6	36.0	36.3	36.0	34.9
87.5°	13.1	13.5	13.5	13.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)