

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: P488752

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488752
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-LD4-1HI-35-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

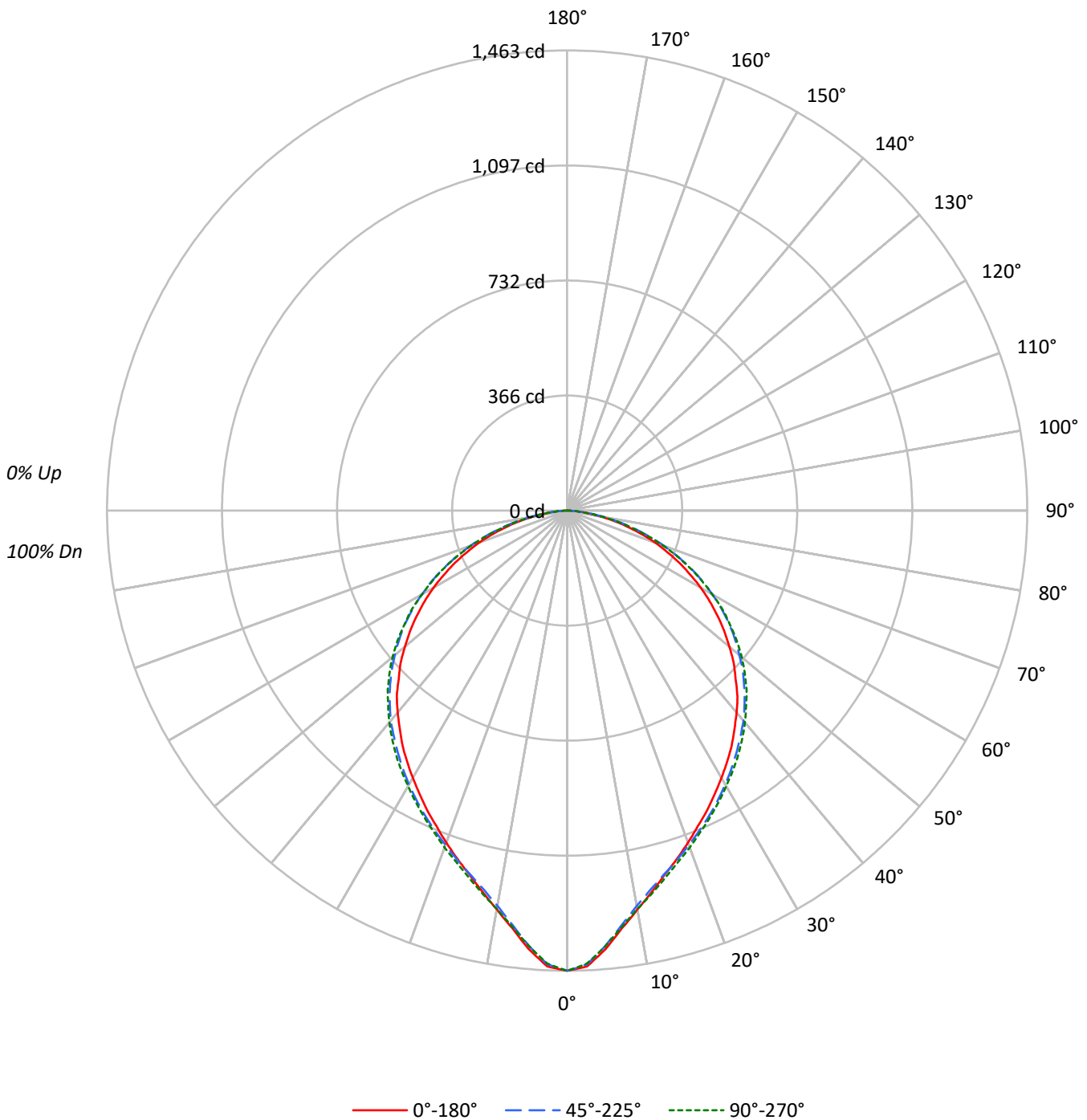
Lumens per Lamp: N/A
Luminaire Lumens: 3398.5 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	3937	3937	3937
5°	3780	3754	3754
10°	3518	3486	3513
15°	3339	3333	3365
20°	3216	3239	3264
25°	3124	3175	3194
30°	3049	3124	3143
35°	2997	3084	3116
40°	2943	3063	3088
45°	2883	3033	3069
50°	2819	2995	3035
55°	2741	2952	2964
60°	2643	2871	2865
65°	2505	2761	2742
70°	2338	2574	2543
75°	2064	2281	2258
80°	1677	1858	1768
85°	1164	1186	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.8
10°-20°	338.6	10.0
20°-30°	492.4	14.5
30°-40°	586.0	17.2
40°-50°	608.5	17.9
50°-60°	551.3	16.2
60°-70°	416.0	12.2
70°-80°	226.7	6.7
80°-90°	49.8	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°	960.4	28.3
0°-40°	1546.4	45.5
0°-60°	2706.1	79.6
0°-90°	3398.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3398.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1400	1396	1390	1389	1390	130
15°	1198	1196	1196	1204	1208	338
25°	1052	1061	1069	1078	1076	485
35°	912	923	939	953	948	570
45°	758	771	797	806	806	586
55°	584	598	629	634	632	522
65°	393	405	434	433	431	389
75°	198	207	219	221	217	211
85°	38	38	38	38	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.1	1463.1	1463.1	1463.1	1463.1
2.5°	1450.3	1448.8	1444.1	1442.3	1441.9
5°	1399.5	1396.2	1389.6	1388.9	1389.6
7.5°	1338.8	1335.1	1328.6	1331.1	1334.4
10°	1287.6	1278.5	1275.9	1279.6	1285.8
12.5°	1241.9	1234.6	1232.4	1241.9	1246.3
15°	1198.4	1195.5	1196.2	1204.3	1207.9
17.5°	1160.8	1158.9	1163.7	1169.9	1171.7
20°	1123.1	1126.8	1131.2	1137.7	1139.9
22.5°	1086.2	1093.1	1100.4	1109.2	1106.3
25°	1052.2	1060.9	1069.4	1078.1	1075.6
27.5°	1016.0	1026.2	1037.9	1047.4	1043.8
30°	981.2	994.0	1005.4	1017.1	1011.6
32.5°	946.9	959.0	972.5	986.7	980.5
35°	912.2	923.1	938.8	953.1	948.4
37.5°	873.8	887.3	905.2	917.6	914.4
40°	837.9	850.4	871.9	880.0	879.2
42.5°	801.7	812.0	834.7	843.8	842.3
45°	757.5	771.0	797.0	805.8	806.5
47.5°	718.4	729.7	757.5	764.4	765.9
50°	673.4	687.7	715.5	723.9	725.0
52.5°	629.2	644.5	673.1	678.9	680.0
55°	584.2	598.1	629.2	633.6	631.8
57.5°	537.1	553.9	582.4	584.6	586.4
60°	491.0	505.6	533.4	536.3	532.3
62.5°	440.9	455.9	484.4	485.1	481.8
65°	393.4	404.7	433.6	432.9	430.7
67.5°	343.6	357.5	378.8	379.5	377.7
70°	297.2	306.7	327.2	327.6	323.2
72.5°	247.2	257.4	273.8	271.6	270.6
75°	198.5	206.6	219.4	220.8	217.2
77.5°	153.9	159.8	169.3	168.2	164.1
80°	108.2	113.0	119.9	118.5	114.1
82.5°	69.1	72.0	76.4	74.6	72.7
85°	37.7	38.0	38.4	38.0	36.9
87.5°	13.9	14.3	14.3	13.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)