

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: P488777

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1STD-35-120-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: P488777
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-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

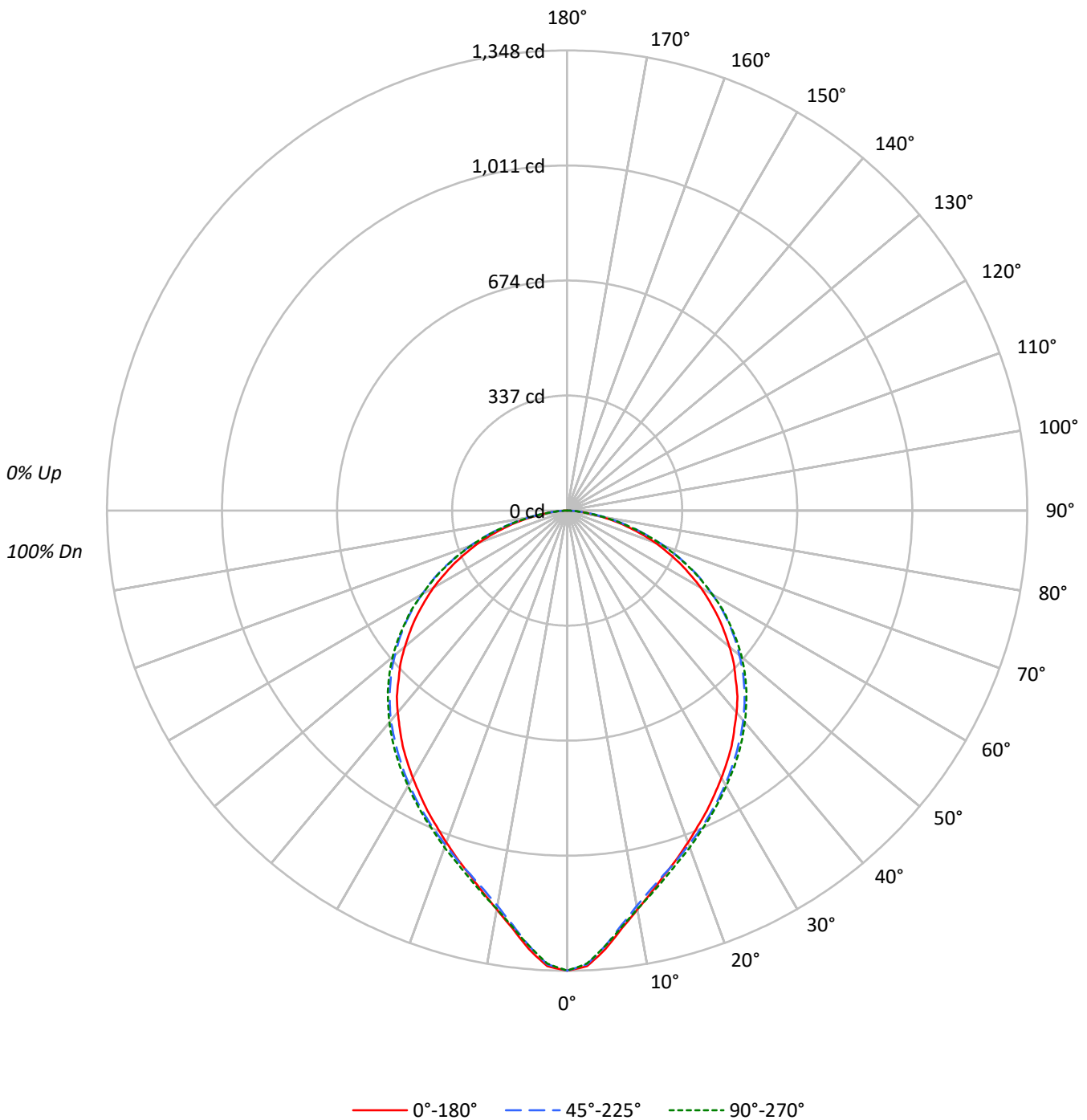
Lumens per Lamp: N/A
Luminaire Lumens: 3130.7 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3627	3627	3627
5°	3482	3458	3458
10°	3241	3212	3237
15°	3076	3070	3100
20°	2963	2984	3007
25°	2878	2925	2942
30°	2809	2878	2896
35°	2760	2841	2870
40°	2712	2821	2845
45°	2656	2794	2827
50°	2597	2759	2796
55°	2525	2719	2730
60°	2434	2645	2639
65°	2308	2543	2526
70°	2154	2371	2342
75°	1902	2101	2079
80°	1545	1712	1629
85°	1071	1093	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.8
10°-20°	312.0	10.0
20°-30°	453.6	14.5
30°-40°	539.8	17.2
40°-50°	560.5	17.9
50°-60°	507.8	16.2
60°-70°	383.2	12.2
70°-80°	208.8	6.7
80°-90°	45.9	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°	884.7	28.3
0°-40°	1424.5	45.5
0°-60°	2492.9	79.6
0°-90°	3130.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3130.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1289	1286	1280	1280	1280	120
15°	1104	1101	1102	1109	1113	312
25°	969	977	985	993	991	447
35°	840	850	865	878	874	525
45°	698	710	734	742	743	539
55°	538	551	580	584	582	481
65°	362	373	399	399	397	358
75°	183	190	202	203	200	195
85°	35	35	35	35	34	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.8	1347.8	1347.8	1347.8	1347.8
2.5°	1336.0	1334.7	1330.3	1328.6	1328.3
5°	1289.2	1286.2	1280.1	1279.5	1280.1
7.5°	1233.3	1229.9	1223.9	1226.2	1229.3
10°	1186.2	1177.7	1175.4	1178.7	1184.5
12.5°	1144.0	1137.3	1135.3	1144.0	1148.1
15°	1104.0	1101.3	1102.0	1109.4	1112.7
17.5°	1069.3	1067.6	1072.0	1077.7	1079.4
20°	1034.6	1038.0	1042.0	1048.1	1050.1
22.5°	1000.6	1007.0	1013.7	1021.8	1019.1
25°	969.3	977.3	985.1	993.2	990.8
27.5°	935.9	945.3	956.1	964.9	961.5
30°	903.9	915.7	926.2	936.9	931.9
32.5°	872.3	883.4	895.8	909.0	903.3
35°	840.3	850.4	864.9	878.0	873.6
37.5°	804.9	817.4	833.9	845.3	842.3
40°	771.9	783.4	803.2	810.6	810.0
42.5°	738.6	748.0	768.9	777.3	776.0
45°	697.8	710.3	734.2	742.3	742.9
47.5°	661.8	672.2	697.8	704.2	705.6
50°	620.4	633.5	659.1	666.8	667.9
52.5°	579.6	593.7	620.0	625.4	626.4
55°	538.2	551.0	579.6	583.7	582.0
57.5°	494.7	510.2	536.5	538.5	540.2
60°	452.3	465.8	491.4	494.1	490.4
62.5°	406.2	420.0	446.2	446.9	443.9
65°	362.4	372.8	399.4	398.8	396.7
67.5°	316.6	329.4	348.9	349.6	347.9
70°	273.8	282.6	301.4	301.8	297.7
72.5°	227.7	237.1	252.2	250.2	249.2
75°	182.9	190.3	202.1	203.4	200.0
77.5°	141.8	147.2	155.9	154.9	151.2
80°	99.7	104.1	110.5	109.1	105.1
82.5°	63.6	66.4	70.4	68.7	67.0
85°	34.7	35.0	35.4	35.0	34.0
87.5°	12.8	13.1	13.1	12.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)