

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: P488503

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-40-120-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: P488503
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-12-2-INS-P12125-LD4-2HI-40-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

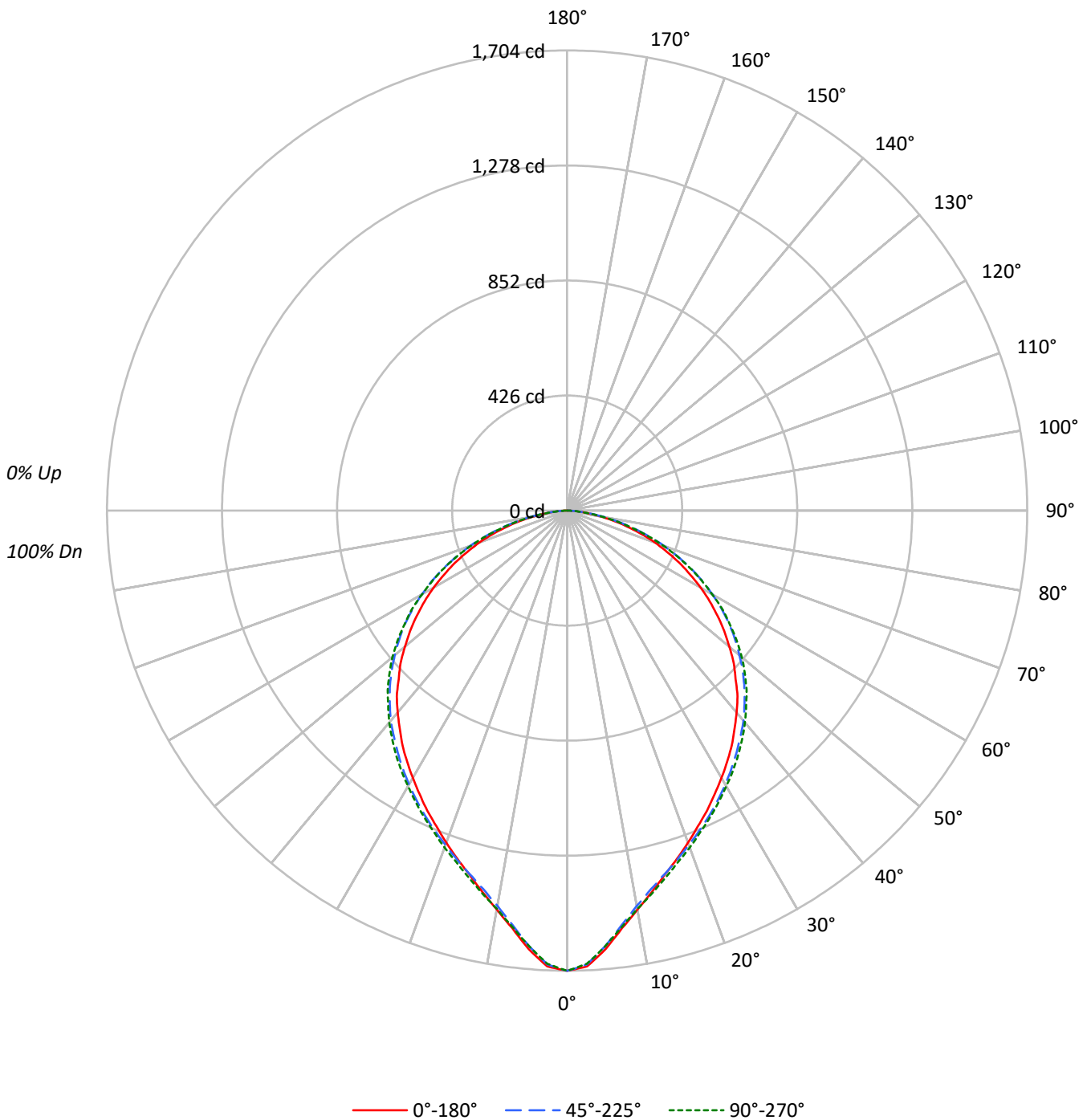
Lumens per Lamp: N/A
Luminaire Lumens: 3958.8 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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	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°	9172	9172	9172
5°	8807	8745	8745
10°	8197	8123	8185
15°	7778	7764	7840
20°	7493	7546	7605
25°	7279	7397	7440
30°	7103	7278	7323
35°	6981	7185	7258
40°	6858	7136	7196
45°	6716	7066	7151
50°	6568	6978	7071
55°	6385	6877	6905
60°	6156	6688	6675
65°	5835	6432	6389
70°	5448	5997	5925
75°	4808	5313	5261
80°	3905	4330	4119
85°	2711	2760	2655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	3.8
10°-20°	394.5	10.0
20°-30°	573.6	14.5
30°-40°	682.6	17.2
40°-50°	708.8	17.9
50°-60°	642.1	16.2
60°-70°	484.5	12.2
70°-80°	264.0	6.7
80°-90°	58.0	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°	1118.7	28.3
0°-40°	1801.3	45.5
0°-60°	3152.2	79.6
0°-90°	3958.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3958.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1630	1626	1619	1618	1619	151
15°	1396	1393	1393	1403	1407	394
25°	1226	1236	1246	1256	1253	565
35°	1062	1075	1094	1110	1105	664
45°	882	898	928	939	940	682
55°	680	697	733	738	736	608
65°	458	471	505	504	502	453
75°	231	241	256	257	253	246
85°	44	44	45	44	43	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.3	1704.3	1704.3	1704.3	1704.3
2.5°	1689.4	1687.7	1682.2	1680.0	1679.6
5°	1630.2	1626.4	1618.7	1617.9	1618.7
7.5°	1559.5	1555.3	1547.6	1550.6	1554.4
10°	1499.9	1489.3	1486.3	1490.5	1497.8
12.5°	1446.7	1438.1	1435.6	1446.7	1451.8
15°	1396.0	1392.6	1393.4	1402.8	1407.1
17.5°	1352.1	1350.0	1355.5	1362.8	1364.9
20°	1308.3	1312.5	1317.6	1325.3	1327.8
22.5°	1265.3	1273.3	1281.9	1292.1	1288.7
25°	1225.7	1235.9	1245.7	1255.9	1252.9
27.5°	1183.5	1195.4	1209.0	1220.1	1215.8
30°	1143.0	1157.9	1171.1	1184.7	1178.4
32.5°	1103.0	1117.1	1132.8	1149.4	1142.2
35°	1062.5	1075.3	1093.6	1110.3	1104.7
37.5°	1017.8	1033.6	1054.4	1068.9	1065.1
40°	976.1	990.6	1015.7	1025.1	1024.2
42.5°	933.9	945.9	972.3	982.9	981.2
45°	882.4	898.2	928.4	938.6	939.5
47.5°	836.8	850.0	882.4	890.5	892.2
50°	784.5	801.1	833.4	843.2	844.5
52.5°	732.9	750.8	784.0	790.8	792.1
55°	680.5	696.7	732.9	738.0	735.9
57.5°	625.6	645.2	678.4	681.0	683.1
60°	571.9	589.0	621.3	624.7	620.1
62.5°	513.6	531.1	564.3	565.1	561.3
65°	458.2	471.4	505.1	504.2	501.7
67.5°	400.3	416.5	441.2	442.0	439.9
70°	346.2	357.3	381.1	381.6	376.5
72.5°	287.9	299.8	319.0	316.4	315.2
75°	231.2	240.6	255.5	257.2	253.0
77.5°	179.3	186.1	197.2	195.9	191.2
80°	126.0	131.6	139.7	138.0	132.9
82.5°	80.5	83.9	89.0	86.9	84.7
85°	43.9	44.3	44.7	44.3	43.0
87.5°	16.2	16.6	16.6	16.2	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)