

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: P488529

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-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: P488529
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-LD4-2STD-50-120-EDD
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

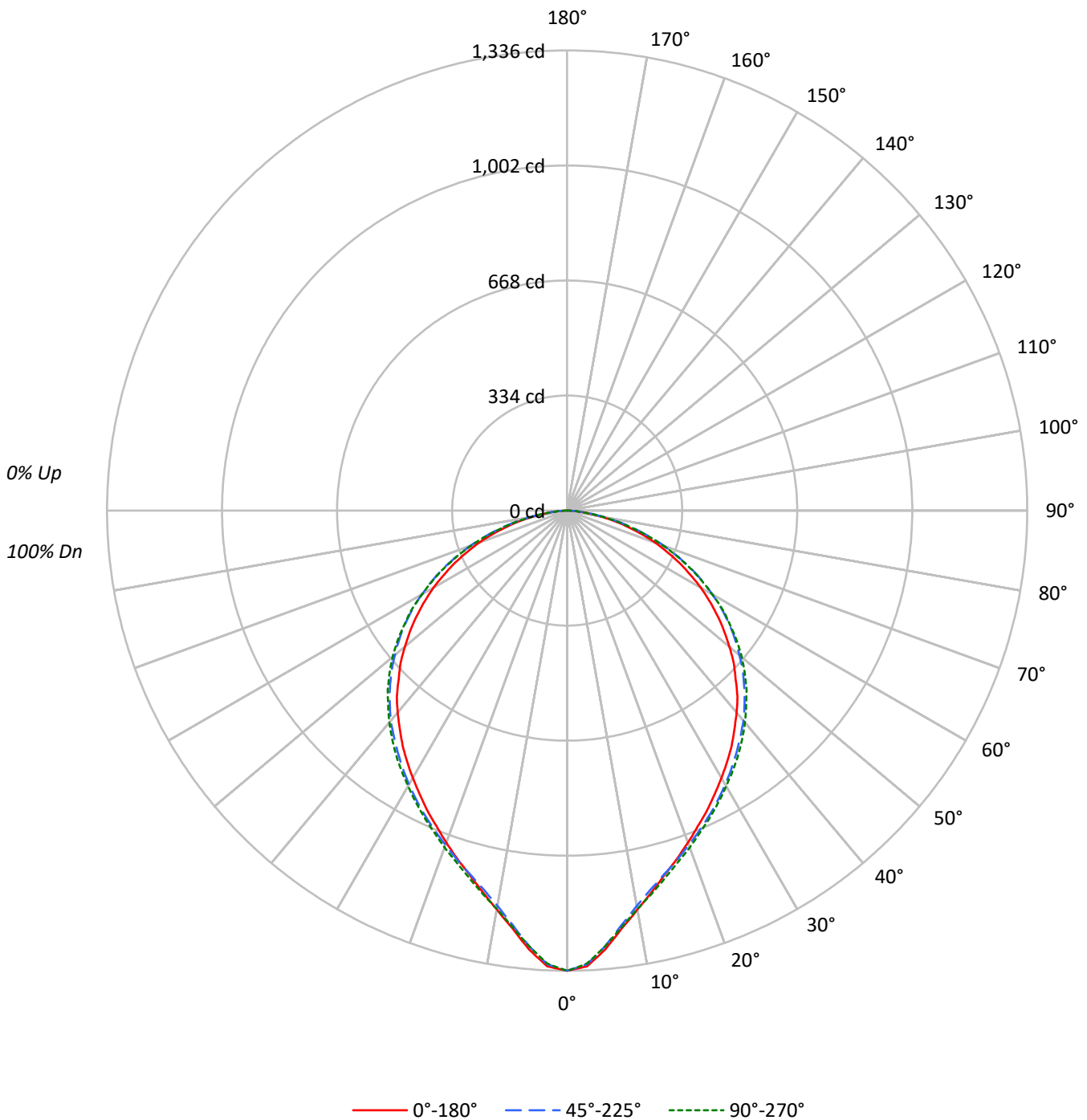
Lumens per Lamp: N/A
Luminaire Lumens: 3103.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7190	7190	7190
5°	6904	6855	6855
10°	6426	6367	6416
15°	6097	6086	6146
20°	5873	5916	5962
25°	5706	5799	5833
30°	5568	5706	5740
35°	5472	5633	5690
40°	5376	5594	5641
45°	5265	5539	5605
50°	5148	5470	5543
55°	5006	5391	5413
60°	4825	5243	5232
65°	4574	5042	5007
70°	4271	4702	4644
75°	3770	4165	4124
80°	3062	3394	3226
85°	2124	2161	2081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.8
10°-20°	309.2	10.0
20°-30°	449.7	14.5
30°-40°	535.1	17.2
40°-50°	555.6	17.9
50°-60°	503.4	16.2
60°-70°	379.8	12.2
70°-80°	207.0	6.7
80°-90°	45.5	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°	877.0	28.3
0°-40°	1412.1	45.5
0°-60°	2471.0	79.6
0°-90°	3103.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1278	1275	1269	1268	1269	119
15°	1094	1092	1092	1100	1103	309
25°	961	969	976	984	982	443
35°	833	843	857	870	866	521
45°	692	704	728	736	736	535
55°	534	546	574	579	577	476
65°	359	370	396	395	393	355
75°	181	189	200	202	198	193
85°	34	35	35	35	34	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.0	1336.0	1336.0	1336.0	1336.0
2.5°	1324.3	1323.0	1318.7	1317.0	1316.6
5°	1277.9	1274.9	1268.9	1268.3	1268.9
7.5°	1222.5	1219.2	1213.2	1215.5	1218.5
10°	1175.8	1167.4	1165.1	1168.4	1174.1
12.5°	1134.0	1127.4	1125.3	1134.0	1138.1
15°	1094.3	1091.6	1092.3	1099.7	1103.0
17.5°	1059.9	1058.3	1062.6	1068.3	1070.0
20°	1025.5	1028.9	1032.9	1038.9	1040.9
22.5°	991.8	998.2	1004.9	1012.9	1010.2
25°	960.8	968.8	976.5	984.5	982.2
27.5°	927.7	937.1	947.8	956.4	953.1
30°	896.0	907.7	918.1	928.7	923.7
32.5°	864.6	875.7	888.0	901.0	895.4
35°	832.9	842.9	857.3	870.3	866.0
37.5°	797.9	810.2	826.6	837.9	834.9
40°	765.2	776.5	796.2	803.6	802.9
42.5°	732.1	741.5	762.2	770.5	769.2
45°	691.7	704.1	727.8	735.8	736.4
47.5°	656.0	666.3	691.7	698.0	699.4
50°	614.9	628.0	653.3	661.0	662.0
52.5°	574.5	588.5	614.6	619.9	620.9
55°	533.5	546.1	574.5	578.6	576.9
57.5°	490.4	505.8	531.8	533.8	535.5
60°	448.3	461.7	487.1	489.7	486.1
62.5°	402.6	416.3	442.3	443.0	440.0
65°	359.2	369.6	395.9	395.3	393.2
67.5°	313.8	326.5	345.9	346.5	344.9
70°	271.4	280.1	298.8	299.1	295.1
72.5°	225.7	235.0	250.0	248.0	247.1
75°	181.3	188.6	200.3	201.6	198.3
77.5°	140.6	145.9	154.6	153.6	149.9
80°	98.8	103.2	109.5	108.2	104.1
82.5°	63.1	65.8	69.8	68.1	66.4
85°	34.4	34.7	35.0	34.7	33.7
87.5°	12.7	13.0	13.0	12.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)