

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: P489785

Luminaire Tested: **CLM-24-4-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: P489785
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-24-4-INS-P12125-LD4-1STD-35-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

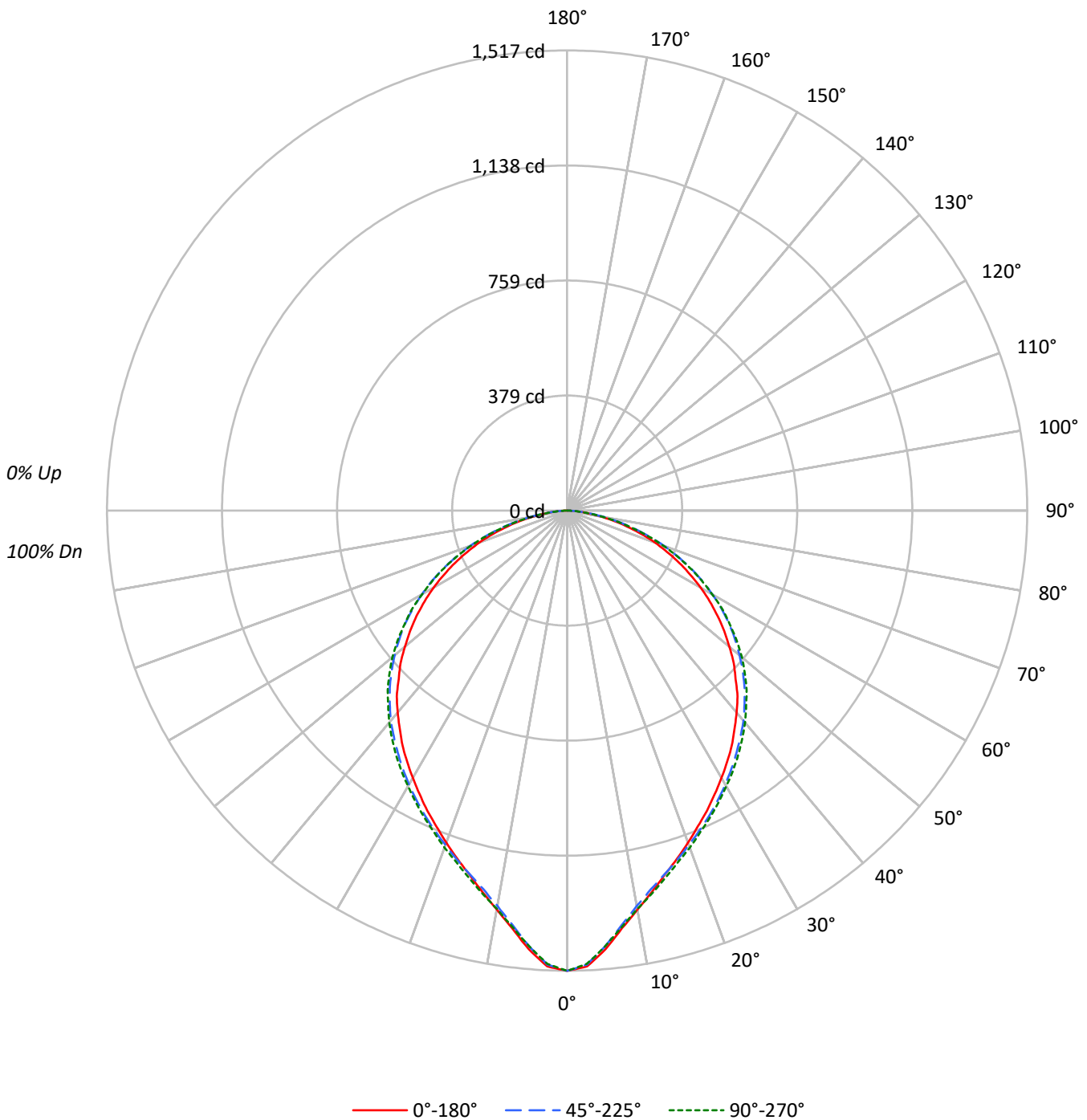
Lumens per Lamp: N/A
Luminaire Lumens: 3524.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2042	2042	2042
5°	1960	1947	1947
10°	1824	1808	1822
15°	1731	1728	1745
20°	1668	1680	1693
25°	1620	1646	1656
30°	1581	1620	1630
35°	1554	1599	1615
40°	1526	1588	1602
45°	1495	1573	1592
50°	1462	1553	1574
55°	1421	1531	1537
60°	1370	1489	1486
65°	1299	1432	1422
70°	1212	1335	1319
75°	1070	1183	1171
80°	869	964	917
85°	604	614	591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.8
10°-20°	351.2	10.0
20°-30°	510.7	14.5
30°-40°	607.7	17.2
40°-50°	631.0	17.9
50°-60°	571.7	16.2
60°-70°	431.4	12.2
70°-80°	235.0	6.7
80°-90°	51.7	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°	996.0	28.3
0°-40°	1603.8	45.5
0°-60°	2806.5	79.6
0°-90°	3524.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1451	1448	1441	1440	1441	135
15°	1243	1240	1241	1249	1253	351
25°	1091	1100	1109	1118	1116	503
35°	946	957	974	988	984	591
45°	786	800	827	836	836	607
55°	606	620	652	657	655	541
65°	408	420	450	449	447	403
75°	206	214	228	229	225	219
85°	39	39	40	39	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.4	1517.4	1517.4	1517.4	1517.4
2.5°	1504.1	1502.6	1497.7	1495.8	1495.4
5°	1451.4	1448.0	1441.2	1440.4	1441.2
7.5°	1388.5	1384.7	1377.9	1380.5	1383.9
10°	1335.4	1325.9	1323.2	1327.0	1333.5
12.5°	1288.0	1280.4	1278.1	1288.0	1292.6
15°	1242.9	1239.8	1240.6	1249.0	1252.7
17.5°	1203.8	1201.9	1206.9	1213.3	1215.2
20°	1164.8	1168.6	1173.1	1180.0	1182.2
22.5°	1126.5	1133.7	1141.3	1150.4	1147.3
25°	1091.2	1100.3	1109.0	1118.1	1115.5
27.5°	1053.7	1064.3	1076.4	1086.3	1082.5
30°	1017.6	1030.9	1042.7	1054.8	1049.1
32.5°	982.0	994.5	1008.6	1023.4	1016.9
35°	946.0	957.4	973.7	988.5	983.5
37.5°	906.2	920.2	938.8	951.7	948.3
40°	869.0	881.9	904.3	912.6	911.9
42.5°	831.5	842.1	865.6	875.1	873.6
45°	785.6	799.6	826.6	835.7	836.4
47.5°	745.0	756.8	785.6	792.8	794.3
50°	698.4	713.2	742.0	750.7	751.9
52.5°	652.5	668.4	698.0	704.1	705.2
55°	605.9	620.3	652.5	657.1	655.2
57.5°	557.0	574.4	604.0	606.3	608.2
60°	509.2	524.4	553.2	556.2	552.1
62.5°	457.3	472.8	502.4	503.1	499.7
65°	408.0	419.7	449.7	448.9	446.6
67.5°	356.4	370.8	392.8	393.6	391.7
70°	308.2	318.1	339.3	339.7	335.2
72.5°	256.3	266.9	284.0	281.7	280.6
75°	205.9	214.2	227.5	229.0	225.2
77.5°	159.6	165.7	175.6	174.4	170.2
80°	112.2	117.2	124.4	122.9	118.3
82.5°	71.6	74.7	79.3	77.4	75.4
85°	39.1	39.4	39.8	39.4	38.3
87.5°	14.4	14.8	14.8	14.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)