

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: P488805

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2LO-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: P488805
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-LD4-2LO-50-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

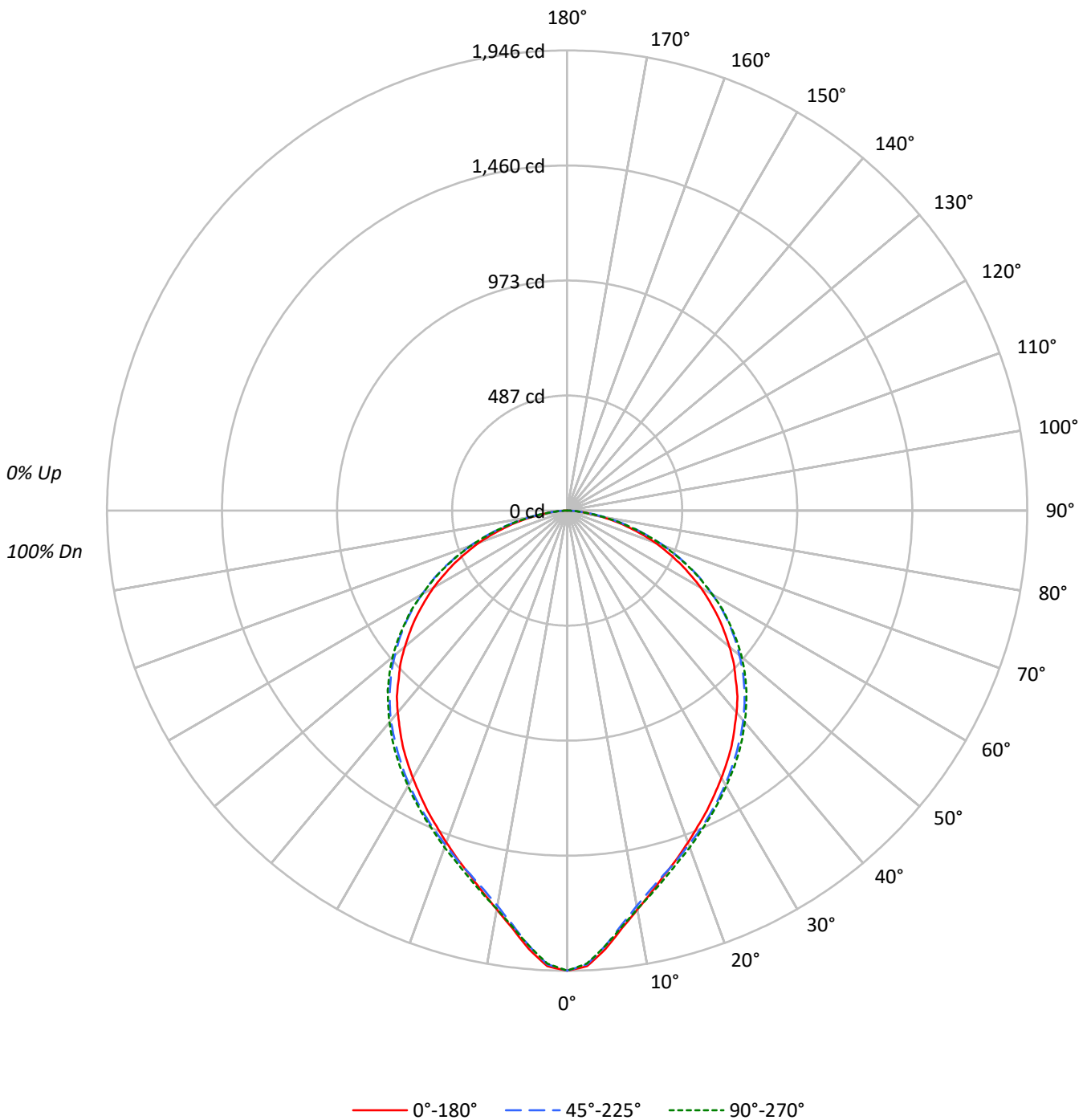
Lumens per Lamp: N/A
Luminaire Lumens: 4519.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5236	5236	5236
5°	5027	4992	4992
10°	4679	4636	4672
15°	4440	4432	4475
20°	4277	4308	4341
25°	4154	4222	4247
30°	4055	4154	4180
35°	3985	4101	4143
40°	3914	4073	4107
45°	3834	4033	4082
50°	3749	3983	4036
55°	3645	3925	3941
60°	3514	3817	3810
65°	3331	3671	3647
70°	3109	3423	3382
75°	2745	3033	3003
80°	2230	2472	2351
85°	1547	1575	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.8
10°-20°	450.3	10.0
20°-30°	654.9	14.5
30°-40°	779.3	17.2
40°-50°	809.2	17.9
50°-60°	733.1	16.2
60°-70°	553.2	12.2
70°-80°	301.4	6.7
80°-90°	66.2	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°	1277.1	28.3
0°-40°	2056.4	45.5
0°-60°	3598.6	79.6
0°-90°	4519.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4519.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1861	1857	1848	1847	1848	173
15°	1594	1590	1591	1602	1606	450
25°	1399	1411	1422	1434	1430	645
35°	1213	1228	1248	1268	1261	758
45°	1007	1025	1060	1072	1072	779
55°	777	795	837	843	840	694
65°	523	538	577	576	573	517
75°	264	275	292	294	289	281
85°	50	50	51	50	49	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.7	1945.7	1945.7	1945.7	1945.7
2.5°	1928.6	1926.7	1920.4	1917.9	1917.4
5°	1861.1	1856.7	1847.9	1847.0	1847.9
7.5°	1780.4	1775.5	1766.8	1770.2	1774.5
10°	1712.3	1700.2	1696.7	1701.6	1709.9
12.5°	1651.5	1641.8	1638.9	1651.5	1657.4
15°	1593.7	1589.8	1590.8	1601.5	1606.3
17.5°	1543.6	1541.2	1547.5	1555.8	1558.2
20°	1493.5	1498.4	1504.2	1513.0	1515.9
22.5°	1444.4	1453.6	1463.4	1475.1	1471.2
25°	1399.2	1410.9	1422.1	1433.7	1430.3
27.5°	1351.1	1364.7	1380.3	1392.9	1388.0
30°	1304.9	1321.9	1337.0	1352.5	1345.2
32.5°	1259.2	1275.2	1293.2	1312.2	1303.9
35°	1213.0	1227.6	1248.5	1267.5	1261.1
37.5°	1162.0	1179.9	1203.7	1220.3	1215.9
40°	1114.3	1130.8	1159.5	1170.2	1169.2
42.5°	1066.2	1079.8	1109.9	1122.1	1120.1
45°	1007.4	1025.3	1059.8	1071.5	1072.5
47.5°	955.3	970.4	1007.4	1016.6	1018.5
50°	895.5	914.5	951.5	962.6	964.1
52.5°	836.7	857.1	895.0	902.8	904.3
55°	776.9	795.4	836.7	842.6	840.1
57.5°	714.2	736.6	774.5	777.4	779.8
60°	652.9	672.4	709.3	713.2	707.9
62.5°	586.3	606.3	644.2	645.1	640.8
65°	523.1	538.2	576.6	575.6	572.7
67.5°	457.0	475.5	503.7	504.6	502.2
70°	395.2	407.9	435.1	435.6	429.8
72.5°	328.7	342.3	364.1	361.2	359.8
75°	264.0	274.7	291.7	293.7	288.8
77.5°	204.7	212.5	225.1	223.7	218.3
80°	143.9	150.2	159.5	157.5	151.7
82.5°	91.9	95.8	101.6	99.2	96.7
85°	50.1	50.5	51.0	50.5	49.1
87.5°	18.5	19.0	19.0	18.5	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)