

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: P489803

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-2LO-20-120-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: P489803
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-LD4-2LO-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

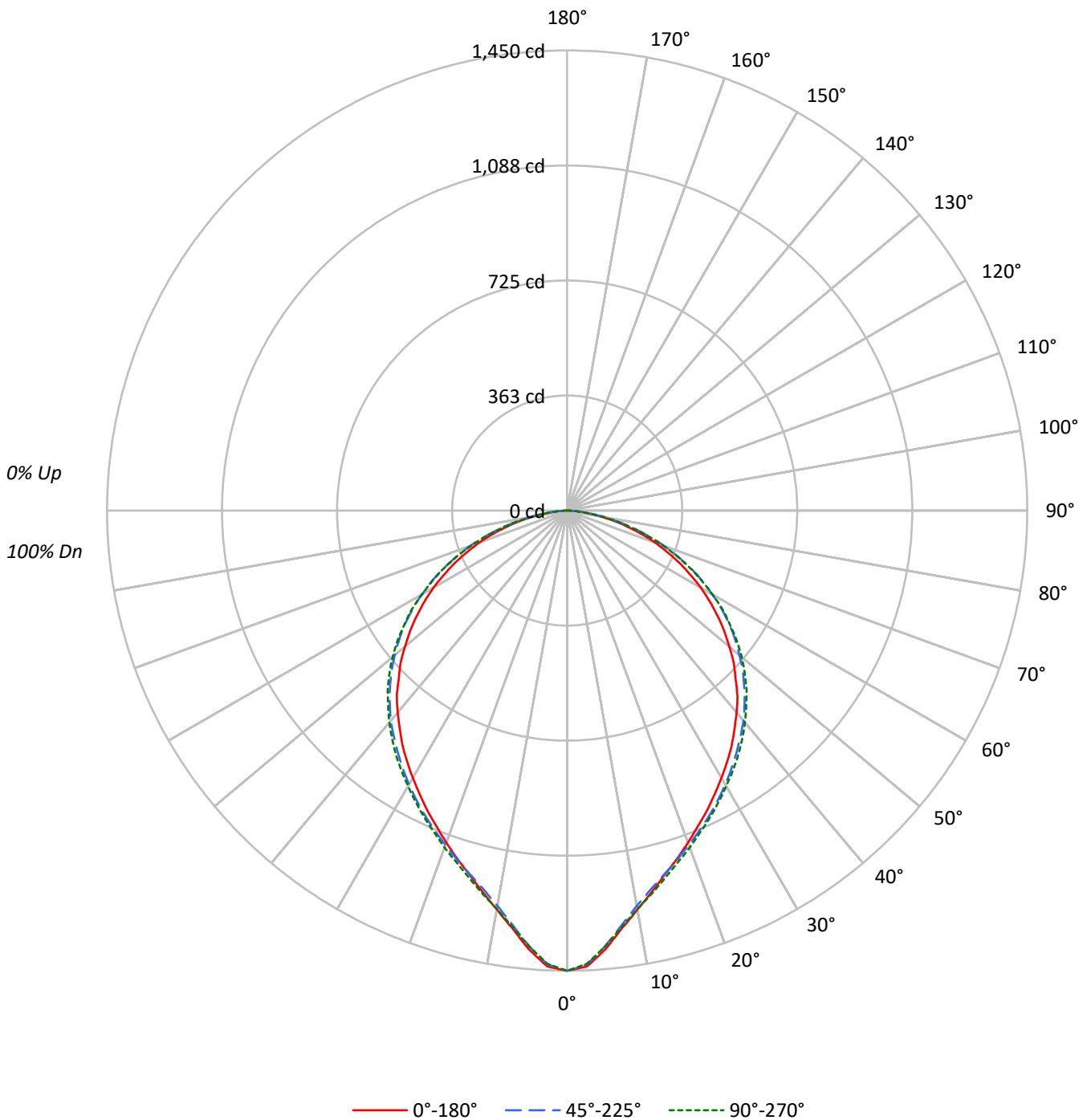
Lumens per Lamp: N/A
Luminaire Lumens: 3368.4 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1951	1951	1951
5°	1873	1860	1860
10°	1744	1728	1741
15°	1655	1651	1668
20°	1594	1605	1618
25°	1548	1574	1583
30°	1511	1548	1558
35°	1485	1528	1544
40°	1459	1518	1531
45°	1429	1503	1521
50°	1397	1484	1504
55°	1358	1463	1469
60°	1309	1423	1420
65°	1241	1368	1359
70°	1159	1276	1260
75°	1023	1130	1119
80°	831	921	876
85°	576	587	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.8
10°-20°	335.6	10.0
20°-30°	488.1	14.5
30°-40°	580.8	17.2
40°-50°	603.1	17.9
50°-60°	546.4	16.2
60°-70°	412.3	12.2
70°-80°	224.6	6.7
80°-90°	49.4	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°	951.9	28.3
0°-40°	1532.7	45.5
0°-60°	2682.1	79.6
0°-90°	3368.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3368.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1387	1384	1377	1377	1377	129
15°	1188	1185	1186	1194	1197	335
25°	1043	1052	1060	1069	1066	481
35°	904	915	930	945	940	565
45°	751	764	790	799	799	580
55°	579	593	624	628	626	517
65°	390	401	430	429	427	385
75°	197	205	217	219	215	210
85°	37	38	38	38	37	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1450.1	1450.1	1450.1	1450.1	1450.1
2.5°	1437.5	1436.0	1431.3	1429.5	1429.1
5°	1387.1	1383.8	1377.3	1376.6	1377.3
7.5°	1326.9	1323.3	1316.8	1319.3	1322.6
10°	1276.2	1267.2	1264.6	1268.2	1274.4
12.5°	1230.9	1223.7	1221.5	1230.9	1235.3
15°	1187.8	1184.9	1185.6	1193.6	1197.2
17.5°	1150.5	1148.7	1153.4	1159.5	1161.4
20°	1113.2	1116.8	1121.1	1127.7	1129.8
22.5°	1076.6	1083.4	1090.7	1099.4	1096.5
25°	1042.9	1051.6	1059.9	1068.6	1066.1
27.5°	1007.0	1017.1	1028.7	1038.2	1034.5
30°	972.5	985.2	996.5	1008.1	1002.6
32.5°	938.5	950.5	963.9	978.0	971.8
35°	904.1	914.9	930.5	944.7	940.0
37.5°	866.0	879.4	897.2	909.5	906.3
40°	830.5	842.8	864.2	872.2	871.5
42.5°	794.6	804.8	827.3	836.3	834.9
45°	750.8	764.2	789.9	798.6	799.4
47.5°	712.0	723.3	750.8	757.7	759.1
50°	667.5	681.6	709.1	717.5	718.6
52.5°	623.6	638.8	667.1	672.9	674.0
55°	579.0	592.8	623.6	628.0	626.2
57.5°	532.3	549.0	577.2	579.4	581.2
60°	486.6	501.1	528.7	531.6	527.6
62.5°	437.0	451.9	480.1	480.8	477.6
65°	389.9	401.1	429.7	429.0	426.8
67.5°	340.6	354.4	375.4	376.1	374.3
70°	294.6	304.0	324.3	324.7	320.3
72.5°	245.0	255.1	271.4	269.2	268.2
75°	196.8	204.7	217.4	218.9	215.2
77.5°	152.6	158.3	167.8	166.7	162.7
80°	107.2	112.0	118.9	117.4	113.0
82.5°	68.5	71.4	75.7	73.9	72.1
85°	37.3	37.7	38.0	37.7	36.6
87.5°	13.8	14.1	14.1	13.8	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)