

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: P488753

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-1HI-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: P488753
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-LD4-1HI-35-120-EDD
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

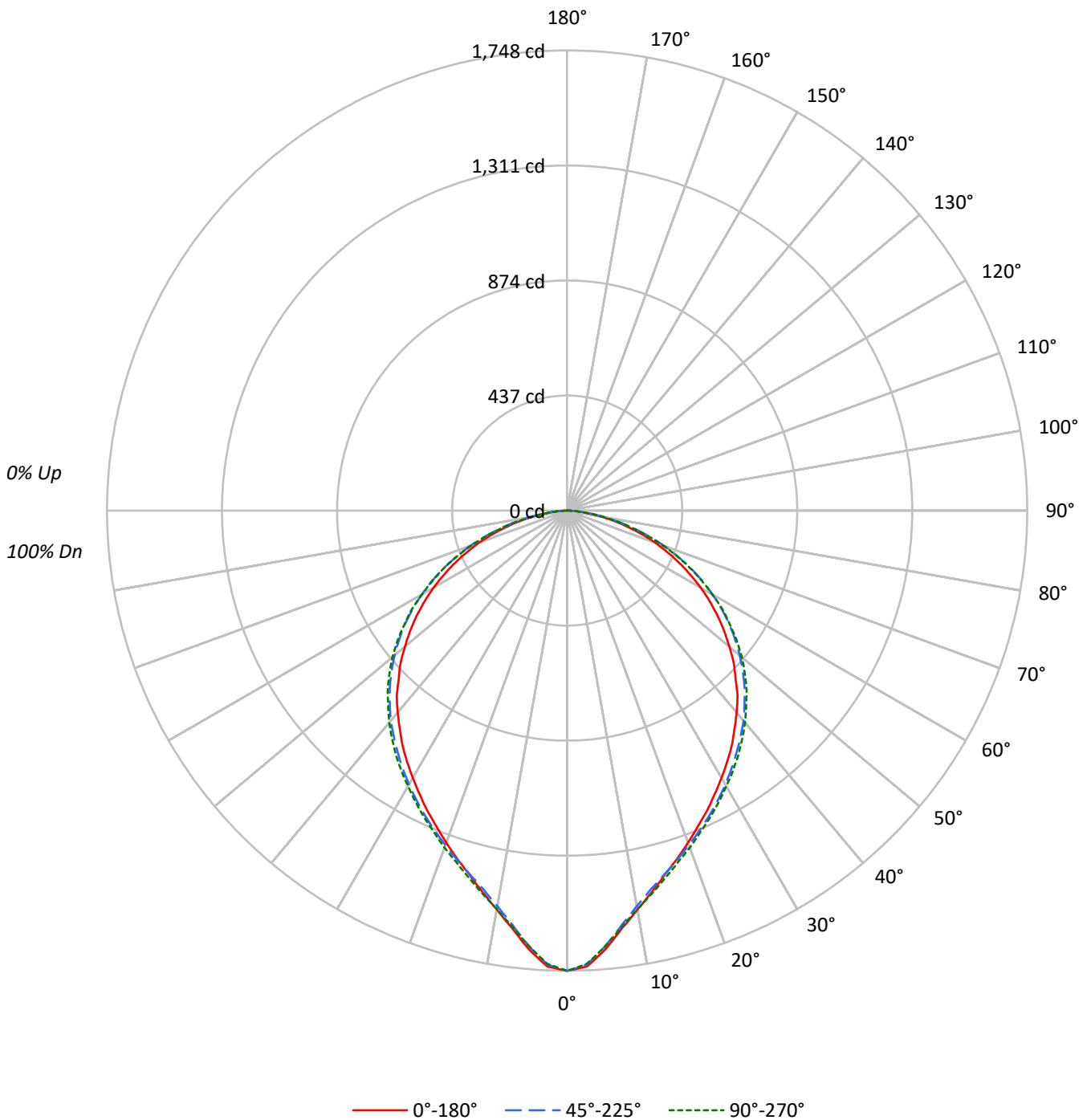
Lumens per Lamp: N/A
Luminaire Lumens: 4061.5 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4705	4705	4705
5°	4518	4486	4486
10°	4205	4167	4199
15°	3990	3983	4022
20°	3844	3871	3901
25°	3734	3795	3817
30°	3644	3733	3756
35°	3581	3686	3723
40°	3518	3660	3691
45°	3445	3625	3668
50°	3369	3580	3627
55°	3276	3528	3542
60°	3158	3431	3424
65°	2993	3300	3277
70°	2795	3076	3039
75°	2466	2726	2698
80°	2004	2221	2112
85°	1389	1417	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	3.8
10°-20°	404.7	10.0
20°-30°	588.5	14.5
30°-40°	700.3	17.2
40°-50°	727.2	17.9
50°-60°	658.8	16.2
60°-70°	497.1	12.2
70°-80°	270.9	6.7
80°-90°	59.5	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°	1147.7	28.3
0°-40°	1848.0	45.5
0°-60°	3234.0	79.6
0°-90°	4061.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1672	1669	1661	1660	1661	155
15°	1432	1429	1430	1439	1444	404
25°	1258	1268	1278	1288	1285	579
35°	1090	1103	1122	1139	1133	682
45°	905	922	952	963	964	700
55°	698	715	752	757	755	623
65°	470	484	518	517	515	465
75°	237	247	262	264	260	253
85°	45	45	46	45	44	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1748.5	1748.5	1748.5	1748.5	1748.5
2.5°	1733.2	1731.5	1725.8	1723.6	1723.2
5°	1672.5	1668.6	1660.7	1659.9	1660.7
7.5°	1600.0	1595.6	1587.8	1590.8	1594.7
10°	1538.8	1527.9	1524.8	1529.2	1536.6
12.5°	1484.2	1475.5	1472.8	1484.2	1489.5
15°	1432.2	1428.7	1429.6	1439.2	1443.6
17.5°	1387.2	1385.0	1390.7	1398.1	1400.3
20°	1342.2	1346.6	1351.8	1359.7	1362.3
22.5°	1298.1	1306.4	1315.1	1325.6	1322.1
25°	1257.5	1267.9	1278.0	1288.5	1285.4
27.5°	1214.2	1226.4	1240.4	1251.8	1247.4
30°	1172.7	1188.0	1201.5	1215.5	1208.9
32.5°	1131.6	1146.0	1162.2	1179.2	1171.8
35°	1090.1	1103.2	1122.0	1139.1	1133.4
37.5°	1044.2	1060.4	1081.8	1096.6	1092.7
40°	1001.4	1016.3	1042.0	1051.7	1050.8
42.5°	958.1	970.4	997.5	1008.4	1006.7
45°	905.3	921.5	952.5	963.0	963.8
47.5°	858.5	872.1	905.3	913.6	915.3
50°	804.8	821.8	855.1	865.1	866.4
52.5°	751.9	770.3	804.4	811.3	812.7
55°	698.2	714.8	751.9	757.2	755.0
57.5°	641.8	661.9	696.0	698.6	700.8
60°	586.8	604.3	637.5	640.9	636.2
62.5°	526.9	544.8	578.9	579.8	575.8
65°	470.1	483.7	518.2	517.3	514.7
67.5°	410.7	427.3	452.6	453.5	451.4
70°	355.2	366.6	391.0	391.5	386.2
72.5°	295.4	307.6	327.2	324.6	323.3
75°	237.2	246.9	262.2	263.9	259.5
77.5°	183.9	190.9	202.3	201.0	196.2
80°	129.3	135.0	143.3	141.6	136.3
82.5°	82.6	86.1	91.3	89.1	86.9
85°	45.0	45.4	45.9	45.4	44.1
87.5°	16.6	17.0	17.0	16.6	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)