

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: P184332

Luminaire Tested: **ENW/ENC-24-4-LD1-45-40-CA080-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184332
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-24-4-LD1-45-40-CA080-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.080" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

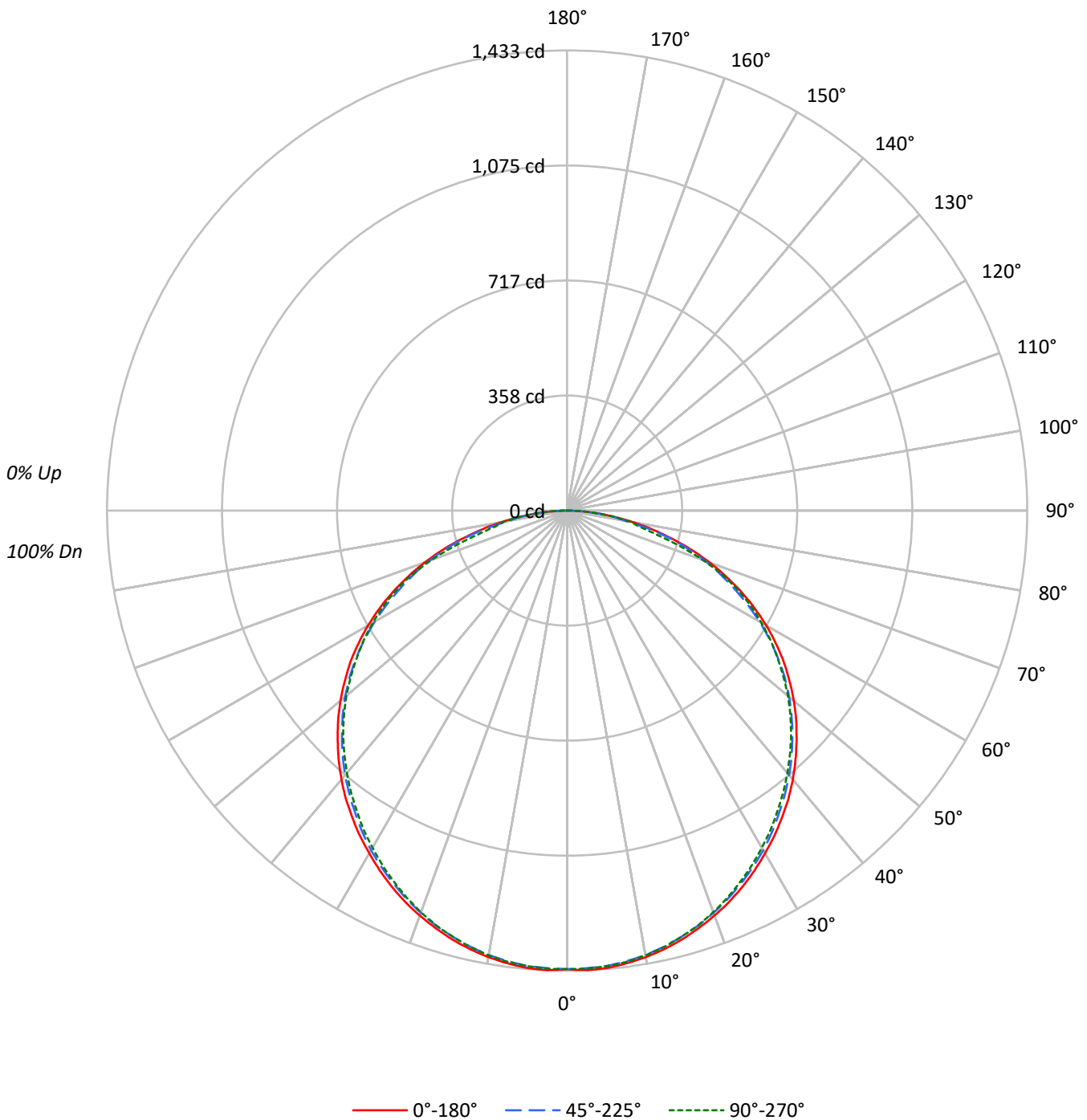
Lumens per Lamp: N/A
Luminaire Lumens: 4341.2 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46.8
Input Voltage (V): NR
Input Current (A_{in}): 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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1921	1921	1921
5°	1923	1913	1919
10°	1912	1902	1913
15°	1901	1888	1902
20°	1888	1872	1889
25°	1875	1856	1872
30°	1861	1841	1857
35°	1851	1822	1844
40°	1843	1808	1835
45°	1831	1792	1831
50°	1822	1777	1825
55°	1805	1748	1810
60°	1774	1705	1801
65°	1719	1639	1778
70°	1629	1572	1654
75°	1479	1432	1363
80°	1254	1097	1346
85°	896	858	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.1
10°-20°	388.3	8.9
20°-30°	590.9	13.6
30°-40°	721.2	16.6
40°-50°	768.0	17.7
50°-60°	720.7	16.6
60°-70°	576.4	13.3
70°-80°	339.3	7.8
80°-90°	101.1	2.3
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°	1114.5	25.7
0°-40°	1835.7	42.3
0°-60°	3324.4	76.6
0°-90°	4341.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1430	1425	1423	1421	1424	136
15°	1383	1377	1374	1372	1374	390
25°	1292	1287	1281	1274	1276	596
35°	1166	1161	1151	1140	1142	731
45°	1010	1006	992	984	986	780
55°	824	816	802	796	799	736
65°	598	588	573	582	588	590
75°	338	331	330	297	287	357
85°	91	85	89	89	90	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.9	1427.9	1427.9	1427.9	1427.9
2.5°	1432.6	1426.9	1426.0	1425.0	1427.9
5°	1429.7	1425.0	1423.2	1421.3	1424.1
7.5°	1422.2	1417.5	1415.6	1414.7	1417.5
10°	1411.9	1406.2	1405.3	1403.4	1406.2
12.5°	1398.7	1394.0	1391.2	1389.3	1392.1
15°	1382.7	1377.1	1374.3	1371.5	1374.3
17.5°	1363.0	1358.3	1355.5	1352.7	1354.5
20°	1342.3	1336.7	1332.9	1327.3	1331.0
22.5°	1318.8	1313.2	1308.5	1301.9	1304.7
25°	1292.5	1286.9	1281.2	1273.7	1275.6
27.5°	1263.4	1258.7	1252.1	1243.6	1245.5
30°	1232.3	1228.6	1221.1	1211.7	1212.6
32.5°	1201.3	1196.6	1187.2	1176.9	1178.8
35°	1166.5	1160.9	1150.6	1140.2	1142.1
37.5°	1131.8	1124.2	1113.9	1102.6	1105.4
40°	1093.2	1088.5	1075.4	1066.0	1066.9
42.5°	1052.8	1048.1	1034.9	1026.5	1027.4
45°	1010.5	1005.8	991.7	984.2	986.1
47.5°	967.3	962.6	948.5	940.9	942.8
50°	922.1	916.5	902.4	894.9	897.7
52.5°	873.3	867.6	854.5	847.9	848.8
55°	824.4	815.9	801.8	796.2	799.0
57.5°	770.8	763.3	749.2	744.5	751.1
60°	716.3	706.9	691.8	691.8	698.4
62.5°	658.0	648.6	632.6	638.3	645.8
65°	597.8	588.4	573.4	581.9	588.4
67.5°	534.9	525.5	516.1	520.8	524.5
70°	470.9	460.6	457.8	453.1	449.3
72.5°	406.1	395.7	395.7	378.8	367.5
75°	337.5	330.9	329.9	297.0	286.7
77.5°	272.6	271.7	256.6	229.4	229.4
80°	207.7	212.4	184.2	192.7	198.3
82.5°	147.6	148.5	141.9	141.9	143.8
85°	91.2	84.6	89.3	89.3	90.2
87.5°	34.8	38.5	39.5	41.4	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)