

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: P184391

Luminaire Tested: **ENW/ENC-24-4-LD1-54-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184391
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-LD1-54-40-CP250-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

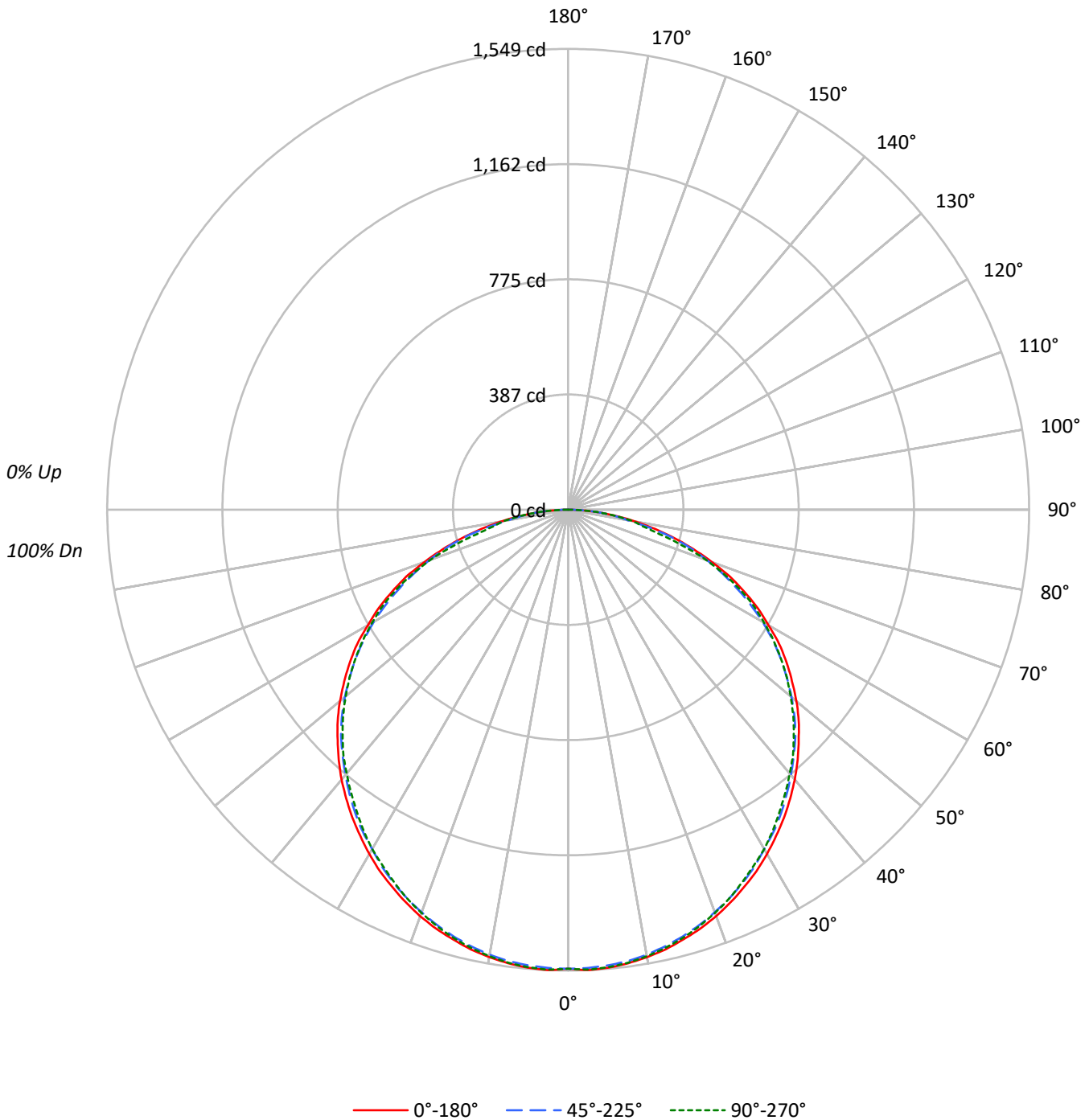
Lumens per Lamp: N/A
Luminaire Lumens: 4715.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 54.6
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	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2076	2076	2076
5°	2083	2067	2076
10°	2077	2056	2064
15°	2069	2040	2048
20°	2063	2023	2028
25°	2054	2007	2006
30°	2047	1986	1989
35°	2041	1974	1965
40°	2038	1958	1953
45°	2033	1950	1942
50°	2035	1928	1928
55°	2030	1901	1911
60°	2006	1859	1885
65°	1975	1789	1838
70°	1889	1708	1706
75°	1761	1575	1391
80°	1551	1211	1329
85°	1201	969	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	3.1
10°-20°	419.8	8.9
20°-30°	639.1	13.6
30°-40°	780.8	16.6
40°-50°	833.2	17.7
50°-60°	783.3	16.6
60°-70°	627.8	13.3
70°-80°	372.0	7.9
80°-90°	113.1	2.4
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°	1205.2	25.6
0°-40°	1986.1	42.1
0°-60°	3602.6	76.4
0°-90°	4715.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4715.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1546	1541	1537	1536	1544	147
15°	1495	1488	1485	1482	1490	422
25°	1399	1391	1385	1377	1383	646
35°	1264	1257	1247	1235	1238	791
45°	1095	1090	1079	1066	1072	846
55°	896	885	872	866	873	800
65°	654	639	626	632	639	645
75°	370	364	363	328	318	391
85°	100	96	101	101	102	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.1	1543.1	1543.1	1543.1	1543.1
2.5°	1549.0	1542.2	1541.4	1538.9	1547.3
5°	1545.6	1541.4	1537.2	1535.5	1543.9
7.5°	1538.0	1533.8	1530.5	1528.0	1536.4
10°	1527.1	1519.6	1518.7	1517.0	1523.8
12.5°	1513.7	1506.1	1503.6	1501.1	1508.6
15°	1495.2	1488.5	1485.1	1481.8	1490.2
17.5°	1476.7	1467.5	1464.1	1460.8	1467.5
20°	1454.0	1444.8	1439.8	1434.7	1442.3
22.5°	1428.0	1418.8	1414.6	1406.2	1414.6
25°	1399.4	1391.0	1385.2	1376.8	1382.6
27.5°	1370.0	1360.0	1354.1	1343.2	1349.0
30°	1336.4	1331.4	1317.1	1308.7	1317.1
32.5°	1300.3	1291.9	1284.4	1274.3	1279.3
35°	1264.2	1256.6	1246.6	1234.8	1238.2
37.5°	1224.7	1218.0	1206.2	1195.3	1198.7
40°	1184.4	1176.8	1164.2	1154.2	1158.4
42.5°	1141.6	1134.0	1121.4	1113.0	1118.0
45°	1095.4	1090.3	1079.4	1066.0	1071.8
47.5°	1050.8	1045.8	1031.5	1020.6	1025.6
50°	1001.3	995.4	979.4	971.9	976.1
52.5°	948.4	939.1	925.7	920.6	925.7
55°	896.3	885.4	871.9	866.0	872.8
57.5°	840.8	829.9	814.0	809.8	818.2
60°	777.8	769.4	754.3	752.6	761.0
62.5°	719.0	706.4	690.5	693.8	704.8
65°	653.5	639.2	625.8	631.7	639.2
67.5°	588.8	571.2	562.0	567.0	567.8
70°	513.2	504.0	497.3	493.9	493.1
72.5°	441.0	433.4	433.4	410.8	404.9
75°	370.4	363.7	362.9	328.4	317.5
77.5°	299.9	295.7	281.4	253.7	253.7
80°	228.5	233.5	203.3	213.4	220.1
82.5°	161.3	165.5	157.1	158.8	161.3
85°	100.0	95.8	100.8	100.8	102.5
87.5°	40.3	44.5	46.2	48.7	50.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)