

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: P184394

Luminaire Tested: **ENW/ENC-24-4-LD1-67-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184394
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-LD1-67-40-CP187-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

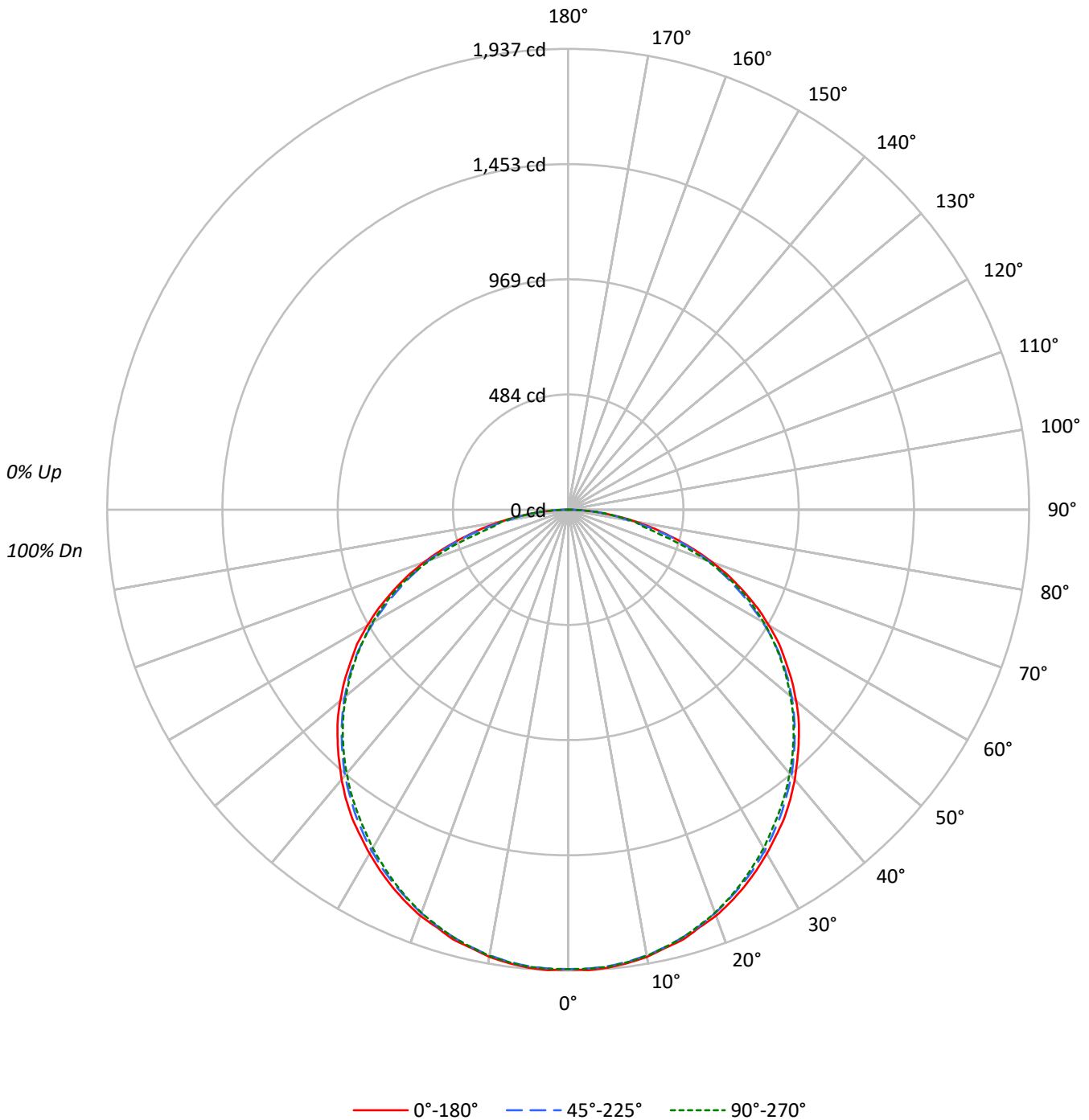
Lumens per Lamp: N/A
Luminaire Lumens: 5898.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 70.2
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°	2599	2599	2599
5°	2604	2590	2593
10°	2596	2575	2579
15°	2588	2556	2558
20°	2578	2535	2535
25°	2567	2513	2507
30°	2557	2492	2480
35°	2555	2472	2456
40°	2547	2454	2440
45°	2544	2433	2428
50°	2542	2415	2408
55°	2528	2384	2384
60°	2512	2323	2353
65°	2461	2233	2295
70°	2365	2143	2126
75°	2191	1962	1739
80°	1944	1529	1688
85°	1521	1209	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	3.1
10°-20°	525.3	8.9
20°-30°	799.8	13.6
30°-40°	977.2	16.6
40°-50°	1041.8	17.7
50°-60°	979.8	16.6
60°-70°	784.5	13.3
70°-80°	465.4	7.9
80°-90°	141.2	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°	1508.2	25.6
0°-40°	2485.3	42.1
0°-60°	4506.8	76.4
0°-90°	5898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1932	1924	1926	1923	1928	184
15°	1870	1863	1861	1855	1861	527
25°	1749	1742	1735	1723	1728	807
35°	1583	1574	1561	1545	1548	990
45°	1370	1362	1346	1336	1340	1058
55°	1116	1106	1093	1083	1089	999
65°	814	802	781	790	798	805
75°	461	453	452	411	397	488
85°	127	118	126	126	129	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.3	1931.3	1931.3	1931.3	1931.3
2.5°	1937.3	1931.3	1930.4	1927.1	1931.3
5°	1932.1	1924.5	1926.2	1922.8	1927.9
7.5°	1921.9	1916.8	1916.0	1913.4	1917.7
10°	1908.3	1903.3	1902.4	1898.1	1904.1
12.5°	1886.3	1885.4	1882.8	1878.6	1883.7
15°	1870.1	1863.3	1860.8	1854.8	1860.8
17.5°	1839.5	1837.8	1834.4	1828.4	1832.7
20°	1816.6	1809.8	1804.6	1796.1	1802.9
22.5°	1784.3	1777.4	1769.8	1761.3	1767.3
25°	1749.4	1741.8	1734.9	1723.1	1728.1
27.5°	1710.3	1703.5	1695.8	1682.3	1685.6
30°	1669.5	1662.6	1653.3	1638.9	1642.3
32.5°	1625.3	1618.5	1607.4	1593.0	1593.8
35°	1582.8	1574.3	1560.6	1545.4	1547.9
37.5°	1533.5	1525.8	1508.8	1495.3	1499.5
40°	1480.8	1474.8	1459.5	1445.1	1447.6
42.5°	1425.5	1420.4	1402.6	1389.0	1394.9
45°	1370.3	1361.8	1346.5	1336.3	1339.6
47.5°	1314.1	1306.5	1287.8	1277.6	1281.8
50°	1250.4	1241.1	1226.6	1216.4	1219.0
52.5°	1185.8	1177.3	1162.0	1151.0	1155.2
55°	1116.1	1105.9	1093.1	1083.0	1088.9
57.5°	1051.5	1035.3	1021.8	1013.3	1020.1
60°	974.1	963.1	942.7	941.0	950.3
62.5°	897.6	883.2	862.0	867.9	875.5
65°	814.3	802.5	781.2	789.7	798.2
67.5°	731.8	714.8	702.1	708.1	710.6
70°	642.6	629.8	624.0	615.5	614.6
72.5°	551.7	542.3	541.5	517.7	508.3
75°	460.7	453.1	452.2	410.6	397.0
77.5°	372.3	369.8	352.0	318.8	318.8
80°	286.5	289.8	256.7	267.8	279.7
82.5°	201.5	202.3	198.0	198.0	198.9
85°	126.7	118.2	125.8	125.8	129.2
87.5°	51.0	55.3	57.8	61.2	62.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)