

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: CORELITE

Report Number: P384020

Luminaire Tested: **24ID-50-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-50-L840-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

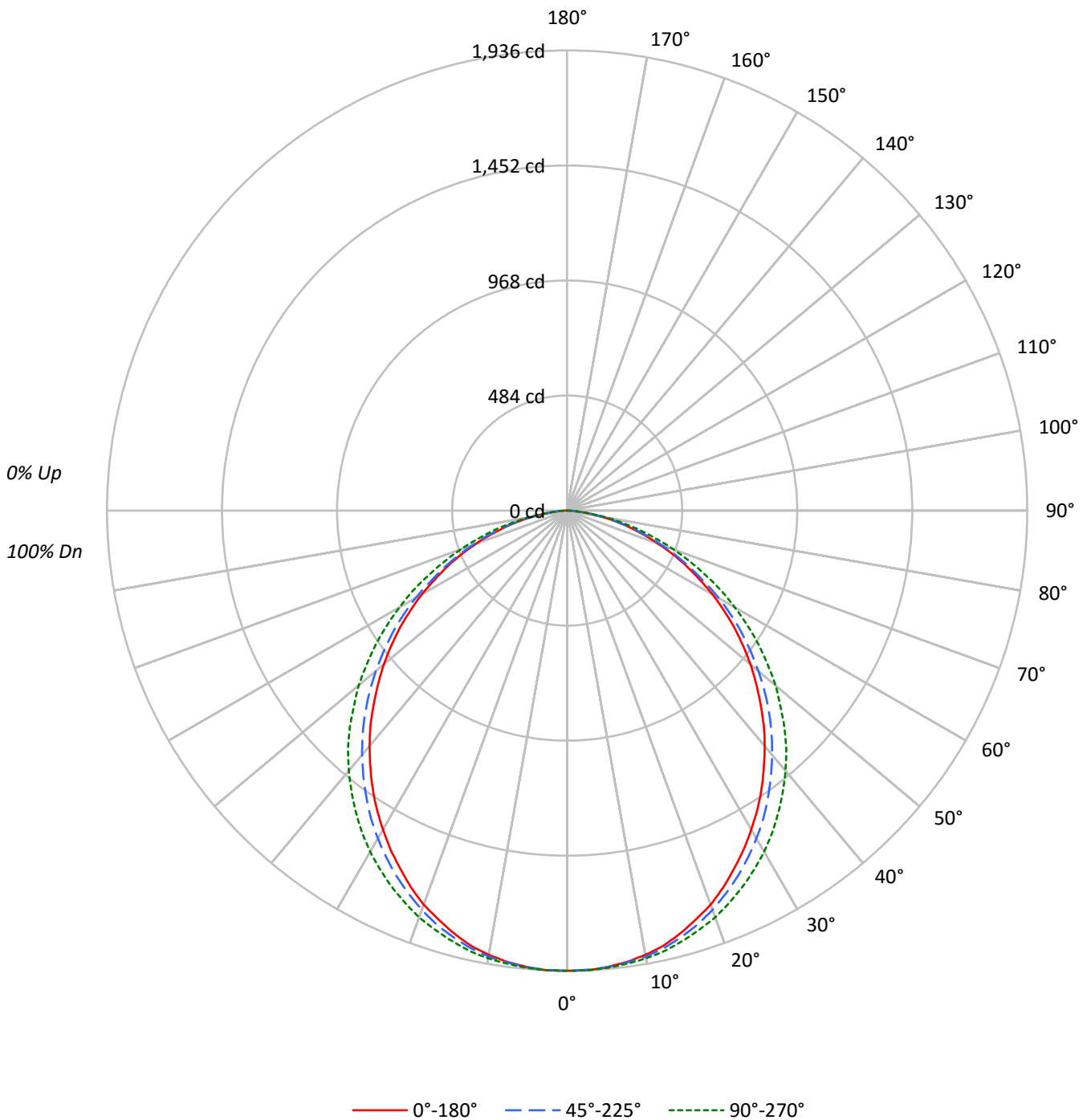
Lumens per Lamp: N/A
Luminaire Lumens: 5111.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2605	2605	2605
5°	2605	2605	2608
10°	2593	2603	2614
15°	2565	2586	2611
20°	2526	2560	2607
25°	2468	2521	2593
30°	2407	2475	2574
35°	2343	2419	2545
40°	2272	2357	2510
45°	2188	2285	2461
50°	2107	2198	2396
55°	2012	2103	2307
60°	1902	1985	2192
65°	1769	1826	2046
70°	1602	1662	1874
75°	1398	1451	1638
80°	1131	1151	1290
85°	672	752	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	3.6
10°-20°	523.9	10.2
20°-30°	783.6	15.3
30°-40°	925.8	18.1
40°-50°	934.2	18.3
50°-60°	811.3	15.9
60°-70°	581.8	11.4
70°-80°	303.1	5.9
80°-90°	64.0	1.3
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°	1490.8	29.2
0°-40°	2416.6	47.3
0°-60°	4162.2	81.4
0°-90°	5111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5111.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1928	1926	1928	1928	1931	183
15°	1841	1844	1857	1870	1875	519
25°	1662	1672	1698	1731	1747	766
35°	1426	1437	1473	1526	1549	892
45°	1150	1163	1201	1263	1293	888
55°	858	866	896	955	983	766
65°	556	553	574	617	643	549
75°	269	266	279	300	315	287
85°	44	49	49	44	41	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.1	1936.1	1936.1	1936.1	1936.1
2.5°	1936.1	1933.6	1933.6	1933.6	1936.1
5°	1928.4	1925.9	1928.4	1928.4	1931.0
7.5°	1915.6	1913.1	1918.2	1920.7	1923.3
10°	1897.7	1897.7	1905.4	1910.5	1913.1
12.5°	1874.7	1874.7	1884.9	1892.6	1897.7
15°	1841.4	1843.9	1856.7	1869.5	1874.7
17.5°	1802.9	1810.6	1826.0	1843.9	1849.0
20°	1764.5	1769.6	1787.6	1810.6	1820.9
22.5°	1715.9	1723.6	1744.0	1774.8	1785.0
25°	1662.1	1672.3	1697.9	1731.2	1746.6
27.5°	1608.3	1616.0	1646.7	1685.1	1703.1
30°	1549.4	1559.6	1592.9	1636.5	1657.0
32.5°	1490.5	1498.2	1536.6	1582.7	1605.7
35°	1426.5	1436.7	1472.6	1526.4	1549.4
37.5°	1359.9	1372.7	1408.5	1464.9	1490.5
40°	1293.3	1301.0	1342.0	1398.3	1429.0
42.5°	1224.2	1234.4	1272.8	1334.3	1365.0
45°	1149.9	1162.7	1201.1	1262.6	1293.3
47.5°	1078.2	1091.0	1126.8	1188.3	1216.5
50°	1006.5	1014.2	1050.0	1111.5	1144.8
52.5°	932.2	939.9	973.2	1032.1	1062.8
55°	857.9	865.6	896.3	955.3	983.4
57.5°	781.1	786.2	817.0	870.7	898.9
60°	706.8	709.4	737.6	786.2	814.4
62.5°	627.4	630.0	650.5	706.8	732.4
65°	555.7	553.2	573.7	617.2	642.8
67.5°	481.5	481.5	499.4	537.8	558.3
70°	407.2	407.2	422.6	455.9	476.3
72.5°	338.1	338.1	350.9	376.5	391.8
75°	268.9	266.3	279.1	299.6	315.0
77.5°	204.9	204.9	210.0	227.9	238.2
80°	146.0	146.0	148.5	158.8	166.5
82.5°	92.2	92.2	92.2	97.3	99.9
85°	43.5	48.7	48.7	43.5	41.0
87.5°	20.5	20.5	17.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)