

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: P384024

Luminaire Tested: **24ID-55-L840-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384024
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-55-L840-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

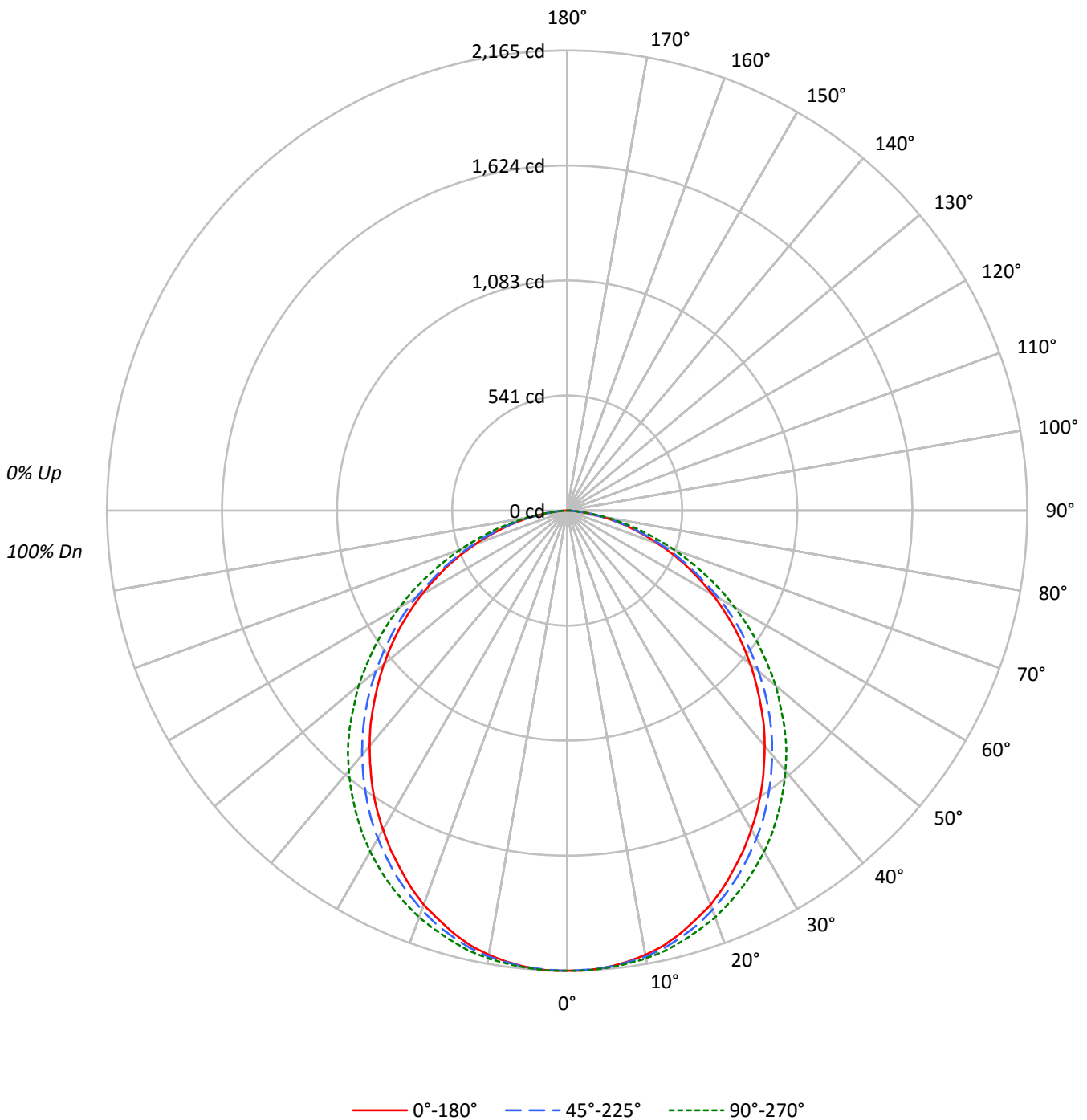
Lumens per Lamp: N/A
Luminaire Lumens: 5716.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
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	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°	2913	2913	2913
5°	2913	2913	2917
10°	2900	2911	2923
15°	2869	2892	2920
20°	2826	2863	2916
25°	2760	2819	2900
30°	2692	2768	2879
35°	2620	2705	2846
40°	2540	2636	2807
45°	2447	2556	2752
50°	2356	2458	2680
55°	2251	2352	2580
60°	2127	2220	2451
65°	1979	2043	2289
70°	1792	1859	2096
75°	1563	1623	1831
80°	1265	1287	1443
85°	752	840	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	3.6
10°-20°	585.9	10.2
20°-30°	876.4	15.3
30°-40°	1035.4	18.1
40°-50°	1044.8	18.3
50°-60°	907.4	15.9
60°-70°	650.7	11.4
70°-80°	339.0	5.9
80°-90°	71.5	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°	1667.3	29.2
0°-40°	2702.7	47.3
0°-60°	4654.9	81.4
0°-90°	5716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2157	2154	2157	2157	2160	205
15°	2059	2062	2076	2091	2097	580
25°	1859	1870	1899	1936	1953	856
35°	1595	1607	1647	1707	1733	997
45°	1286	1300	1343	1412	1446	993
55°	960	968	1002	1068	1100	857
65°	622	619	642	690	719	614
75°	301	298	312	335	352	321
85°	49	54	54	49	46	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2165.3	2165.3	2165.3	2165.3	2165.3
2.5°	2165.3	2162.4	2162.4	2162.4	2165.3
5°	2156.7	2153.8	2156.7	2156.7	2159.6
7.5°	2142.4	2139.5	2145.2	2148.1	2151.0
10°	2122.3	2122.3	2130.9	2136.7	2139.5
12.5°	2096.6	2096.6	2108.0	2116.6	2122.3
15°	2059.3	2062.2	2076.5	2090.8	2096.6
17.5°	2016.4	2025.0	2042.1	2062.2	2067.9
20°	1973.4	1979.1	1999.2	2025.0	2036.4
22.5°	1919.0	1927.6	1950.5	1984.9	1996.3
25°	1858.8	1870.3	1898.9	1936.2	1953.3
27.5°	1798.7	1807.3	1841.6	1884.6	1904.7
30°	1732.8	1744.3	1781.5	1830.2	1853.1
32.5°	1666.9	1675.5	1718.5	1770.0	1795.8
35°	1595.3	1606.8	1646.9	1707.0	1732.8
37.5°	1520.9	1535.2	1575.3	1638.3	1666.9
40°	1446.4	1455.0	1500.8	1563.8	1598.2
42.5°	1369.1	1380.5	1423.5	1492.2	1526.6
45°	1286.0	1300.3	1343.3	1412.0	1446.4
47.5°	1205.8	1220.1	1260.2	1329.0	1360.5
50°	1125.6	1134.2	1174.3	1243.0	1280.3
52.5°	1042.6	1051.1	1088.4	1154.3	1188.6
55°	959.5	968.1	1002.5	1068.3	1099.8
57.5°	873.6	879.3	913.7	973.8	1005.3
60°	790.5	793.4	824.9	879.3	910.8
62.5°	701.7	704.6	727.5	790.5	819.1
65°	621.5	618.7	641.6	690.3	718.9
67.5°	538.5	538.5	558.5	601.5	624.4
70°	455.4	455.4	472.6	509.8	532.7
72.5°	378.1	378.1	392.4	421.0	438.2
75°	300.7	297.9	312.2	335.1	352.3
77.5°	229.1	229.1	234.9	254.9	266.4
80°	163.3	163.3	166.1	177.6	186.2
82.5°	103.1	103.1	103.1	108.8	111.7
85°	48.7	54.4	54.4	48.7	45.8
87.5°	22.9	22.9	20.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)