

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: P385200

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-55-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

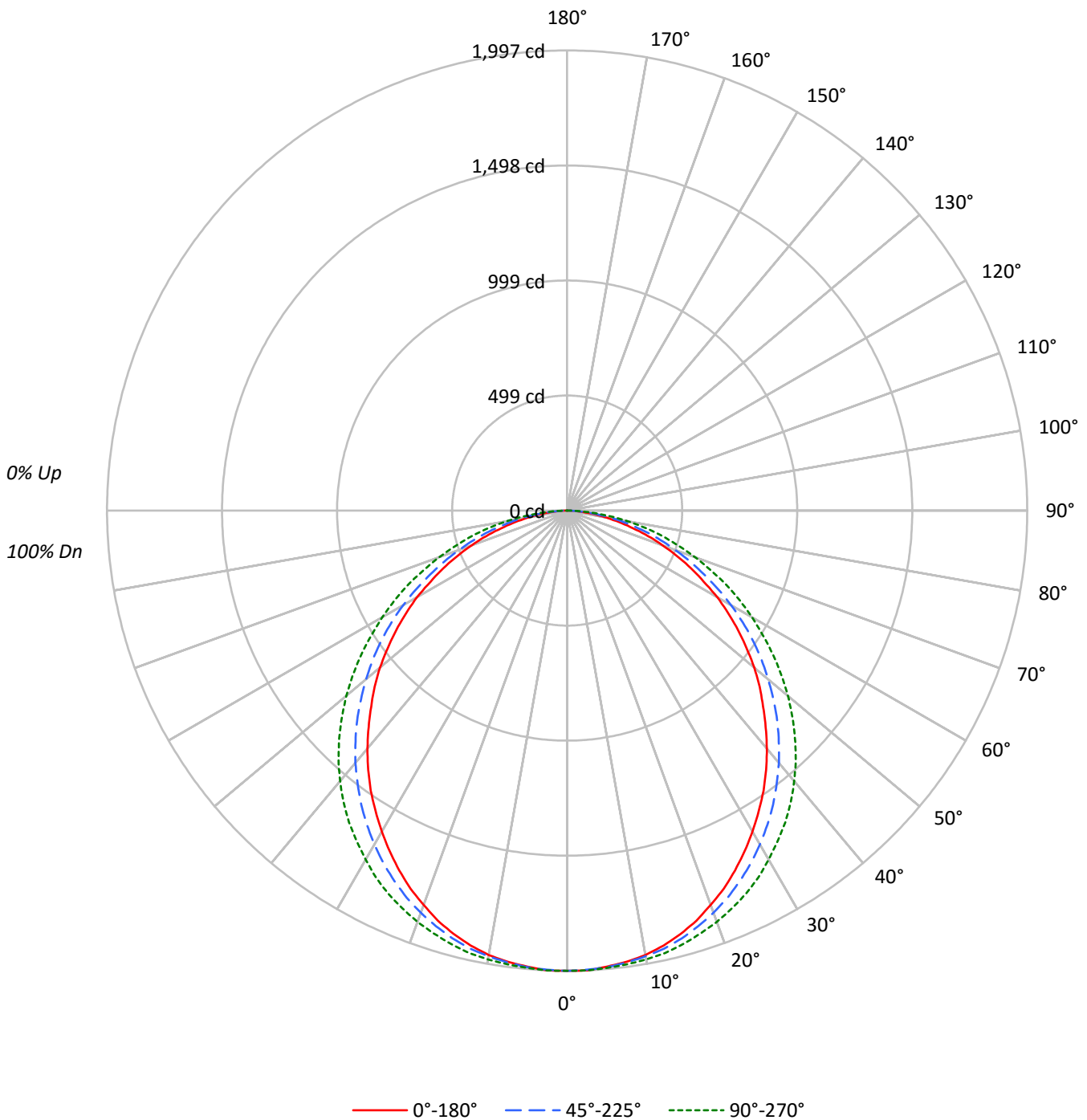
Lumens per Lamp: N/A  
Luminaire Lumens: 5545.7 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2687	2687	2687
5°	2683	2686	2690
10°	2675	2683	2702
15°	2650	2677	2712
20°	2608	2660	2720
25°	2558	2633	2724
30°	2499	2599	2716
35°	2440	2559	2711
40°	2368	2511	2693
45°	2289	2454	2661
50°	2219	2383	2618
55°	2126	2310	2559
60°	2025	2213	2492
65°	1888	2084	2422
70°	1739	1959	2322
75°	1541	1818	2225
80°	1300	1626	2060
85°	949	1252	1641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	3.4
10°-20°	542.4	9.8
20°-30°	818.1	14.8
30°-40°	976.7	17.6
40°-50°	998.2	18.0
50°-60°	885.1	16.0
60°-70°	659.8	11.9
70°-80°	376.9	6.8
80°-90°	99.4	1.8
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°	1549.6	27.9
0°-40°	2526.2	45.6
0°-60°	4409.5	79.5
0°-90°	5545.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1986	1986	1989	1989	1992	189
15°	1902	1908	1922	1939	1947	536
25°	1723	1737	1774	1813	1835	793
35°	1485	1505	1558	1620	1650	928
45°	1203	1228	1290	1360	1399	929
55°	906	923	985	1055	1091	810
65°	593	607	655	722	761	588
75°	296	310	350	403	428	316
85°	62	64	81	101	106	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1997.4	1997.4	1997.4	1997.4	1997.4
2.5°	1997.4	1994.6	1994.6	1994.6	1997.4
5°	1986.2	1986.2	1989.0	1989.0	1991.8
7.5°	1975.0	1975.0	1977.8	1980.6	1986.2
10°	1958.2	1958.2	1963.8	1972.2	1977.8
12.5°	1933.0	1935.8	1947.0	1958.2	1966.6
15°	1902.3	1907.8	1921.8	1938.6	1947.0
17.5°	1865.9	1871.5	1891.1	1913.4	1924.6
20°	1821.1	1832.3	1857.5	1885.5	1899.5
22.5°	1776.4	1787.6	1818.3	1851.9	1868.7
25°	1723.2	1737.2	1773.6	1812.7	1835.1
27.5°	1667.3	1684.1	1726.0	1770.8	1796.0
30°	1608.5	1628.1	1672.9	1723.2	1748.4
32.5°	1547.0	1566.6	1616.9	1672.9	1700.8
35°	1485.4	1505.0	1558.2	1619.7	1650.5
37.5°	1418.3	1437.9	1493.8	1561.0	1594.5
40°	1348.4	1370.7	1429.5	1496.6	1533.0
42.5°	1275.6	1300.8	1359.6	1432.3	1468.7
45°	1202.9	1228.1	1289.6	1359.6	1398.7
47.5°	1133.0	1152.5	1214.1	1286.8	1326.0
50°	1060.2	1077.0	1138.6	1211.3	1250.5
52.5°	981.9	1004.3	1063.0	1135.8	1172.1
55°	906.4	923.2	984.7	1054.6	1091.0
57.5°	828.0	844.8	903.6	973.5	1007.1
60°	752.5	769.3	822.4	892.4	926.0
62.5°	668.6	685.4	738.5	811.3	844.8
65°	593.1	607.0	654.6	721.7	760.9
67.5°	517.5	531.5	576.3	640.6	671.4
70°	442.0	453.2	497.9	556.7	590.3
72.5°	369.3	380.5	425.2	478.4	506.3
75°	296.5	310.5	349.7	402.8	428.0
77.5°	229.4	243.4	276.9	324.5	346.9
80°	167.8	179.0	209.8	246.2	265.8
82.5°	111.9	120.3	142.7	173.4	187.4
85°	61.5	64.3	81.1	100.7	106.3
87.5°	25.2	25.2	30.8	33.6	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)