

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: P385196

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385196  
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-50-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

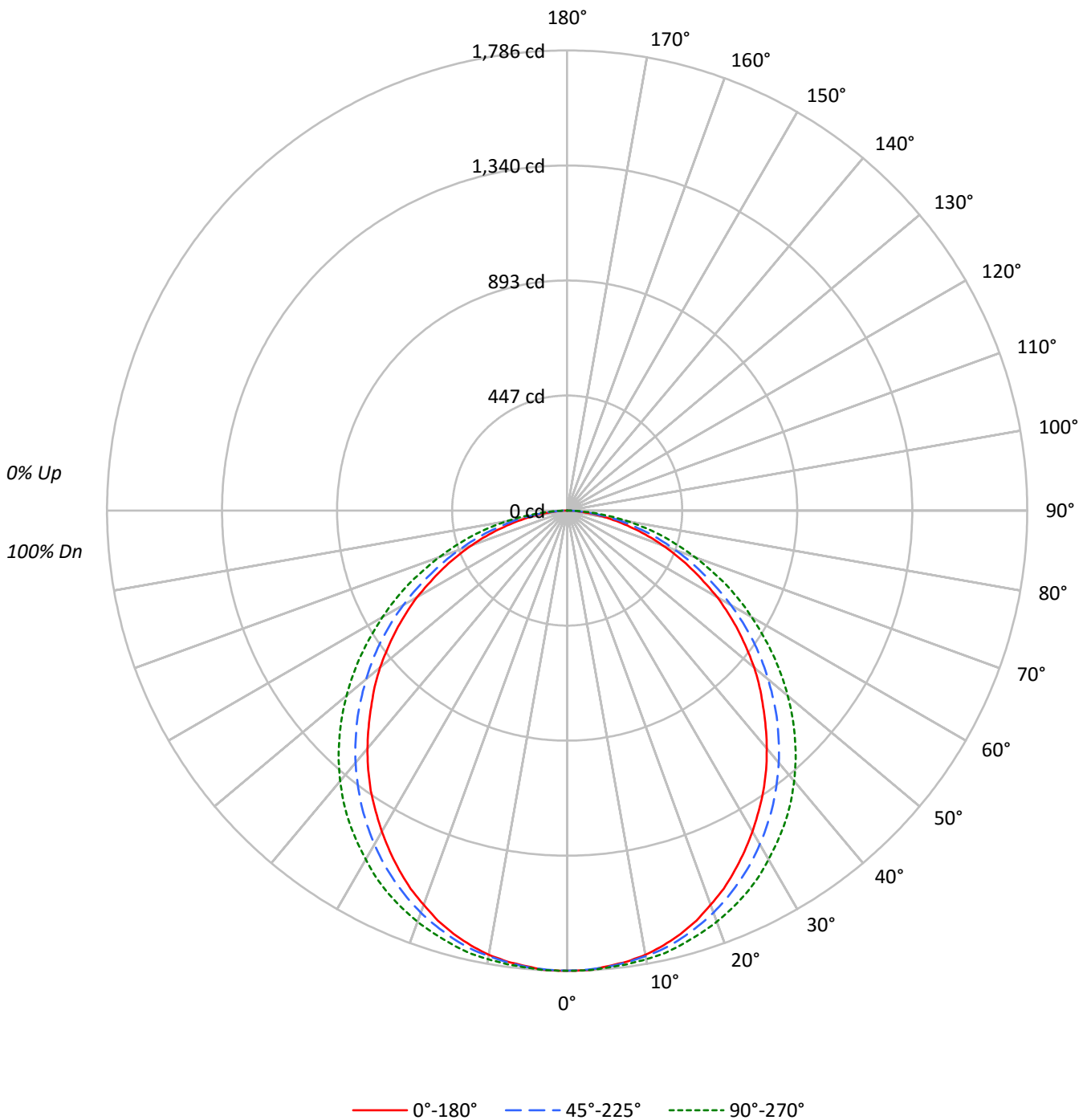
Lumens per Lamp: N/A  
Luminaire Lumens: 4958.7 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P385196  
CATALOG NUMBER: 24ID-50-L840-CNC

### Luminous Intensity Polar Plot





TEST NUMBER: P385196

CATALOG NUMBER: 24ID-50-L840-CNC

**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°	2403	2403	2403
5°	2399	2402	2405
10°	2392	2399	2416
15°	2369	2394	2425
20°	2332	2378	2432
25°	2287	2354	2436
30°	2235	2324	2429
35°	2182	2288	2424
40°	2118	2245	2408
45°	2047	2194	2380
50°	1984	2131	2340
55°	1901	2065	2288
60°	1811	1979	2228
65°	1688	1863	2166
70°	1555	1751	2076
75°	1378	1626	1989
80°	1163	1454	1841
85°	849	1119	1468



TEST NUMBER: P385196

CATALOG NUMBER: 24ID-50-L840-CNC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.1	3.4
10°-20°	485.0	9.8
20°-30°	731.5	14.8
30°-40°	873.3	17.6
40°-50°	892.5	18.0
50°-60°	791.4	16.0
60°-70°	590.0	11.9
70°-80°	337.0	6.8
80°-90°	88.9	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°	1385.5	27.9
0°-40°	2258.8	45.6
0°-60°	3942.8	79.5
0°-90°	4958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4958.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1776	1776	1778	1778	1781	169
15°	1701	1706	1718	1733	1741	479
25°	1541	1553	1586	1621	1641	709
35°	1328	1346	1393	1448	1476	830
45°	1076	1098	1153	1216	1251	831
55°	810	825	880	943	976	724
65°	530	543	585	645	680	526
75°	265	278	313	360	383	283
85°	55	58	72	90	95	69
90°	0	0	0	0	0	



TEST NUMBER: P385196

CATALOG NUMBER: 24ID-50-L840-CNC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1786.0	1786.0	1786.0	1786.0	1786.0
2.5°	1786.0	1783.4	1783.4	1783.4	1786.0
5°	1775.9	1775.9	1778.4	1778.4	1780.9
7.5°	1765.9	1765.9	1768.4	1770.9	1775.9
10°	1750.9	1750.9	1755.9	1763.4	1768.4
12.5°	1728.4	1730.9	1740.9	1750.9	1758.4
15°	1700.9	1705.9	1718.4	1733.4	1740.9
17.5°	1668.4	1673.4	1690.9	1710.9	1720.9
20°	1628.4	1638.4	1660.9	1685.9	1698.4
22.5°	1588.3	1598.4	1625.9	1655.9	1670.9
25°	1540.8	1553.3	1585.8	1620.9	1640.9
27.5°	1490.8	1505.8	1543.3	1583.3	1605.9
30°	1438.3	1455.8	1495.8	1540.8	1563.3
32.5°	1383.2	1400.7	1445.8	1495.8	1520.8
35°	1328.2	1345.7	1393.2	1448.3	1475.8
37.5°	1268.2	1285.7	1335.7	1395.7	1425.8
40°	1205.6	1225.7	1278.2	1338.2	1370.7
42.5°	1140.6	1163.1	1215.6	1280.7	1313.2
45°	1075.6	1098.1	1153.1	1215.6	1250.7
47.5°	1013.0	1030.5	1085.6	1150.6	1185.6
50°	948.0	963.0	1018.0	1083.1	1118.1
52.5°	878.0	898.0	950.5	1015.5	1048.1
55°	810.4	825.4	880.5	943.0	975.5
57.5°	740.4	755.4	807.9	870.5	900.5
60°	672.9	687.9	735.4	797.9	827.9
62.5°	597.8	612.8	660.4	725.4	755.4
65°	530.3	542.8	585.3	645.3	680.4
67.5°	462.7	475.3	515.3	572.8	600.3
70°	395.2	405.2	445.2	497.8	527.8
72.5°	330.2	340.2	380.2	427.7	452.7
75°	265.1	277.6	312.7	360.2	382.7
77.5°	205.1	217.6	247.6	290.2	310.2
80°	150.1	160.1	187.6	220.1	237.6
82.5°	100.1	107.6	127.6	155.1	167.6
85°	55.0	57.5	72.5	90.0	95.1
87.5°	22.5	22.5	27.5	30.0	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)