

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: P383852

Luminaire Tested: **24ID-50-L840-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-50-L840-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

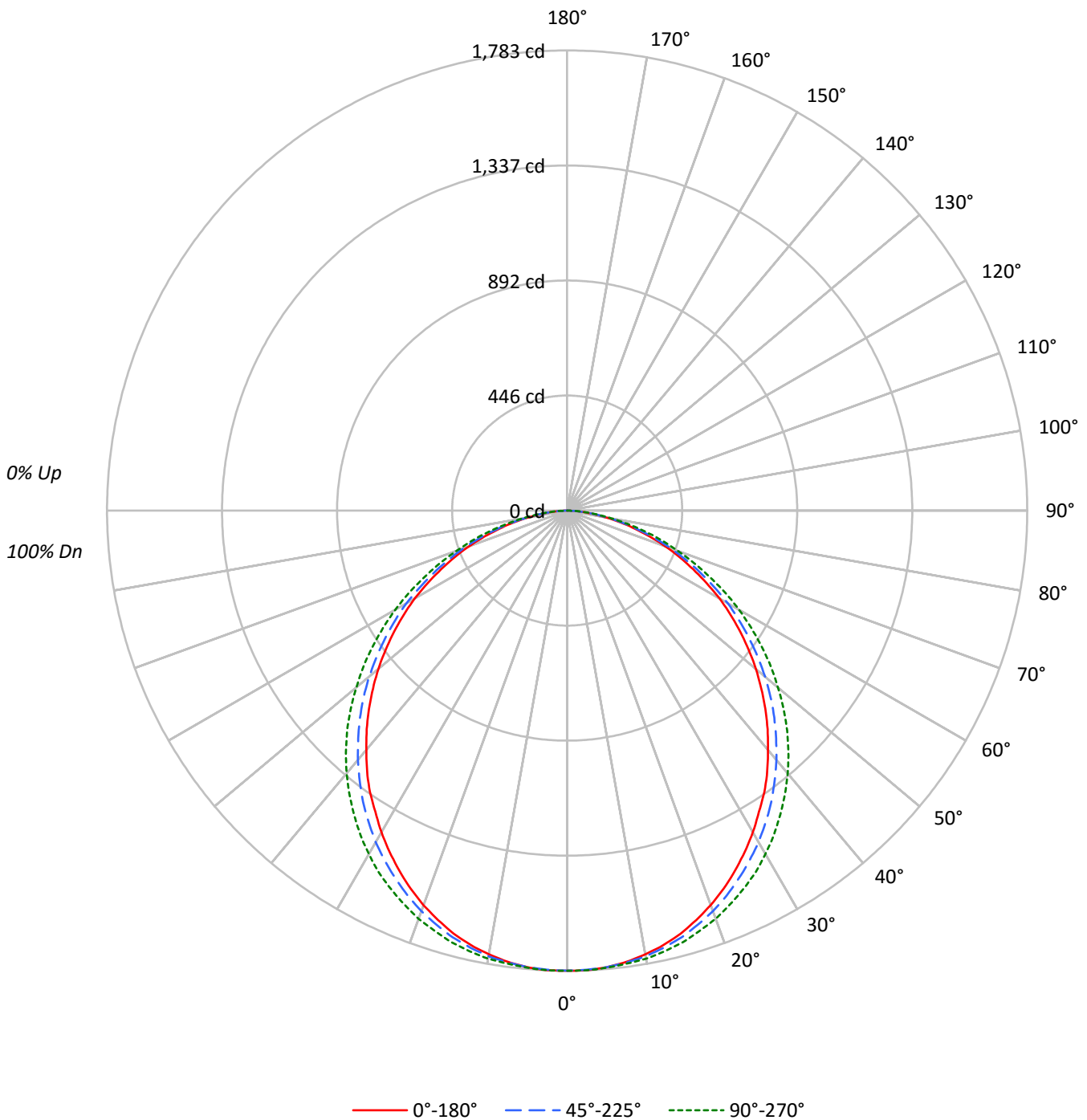
Lumens per Lamp: N/A  
Luminaire Lumens: 4842.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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



TEST NUMBER: P383852  
CATALOG NUMBER: 24ID-50-L840-CFR1

### 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	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76		82	78	74		79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	67	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47		58	52	47		57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	2399	2399	2399
5°	2398	2398	2401
10°	2386	2396	2409
15°	2365	2385	2412
20°	2330	2364	2410
25°	2285	2336	2401
30°	2236	2305	2388
35°	2188	2264	2364
40°	2126	2216	2336
45°	2067	2160	2294
50°	1999	2095	2233
55°	1920	2017	2160
60°	1835	1933	2071
65°	1714	1814	1939
70°	1590	1677	1792
75°	1418	1494	1621
80°	1189	1246	1359
85°	903	903	1016



TEST NUMBER: P383852

CATALOG NUMBER: 24ID-50-L840-CFR1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.7	3.5
10°-20°	482.8	10.0
20°-30°	726.0	15.0
30°-40°	863.6	17.8
40°-50°	878.7	18.1
50°-60°	773.4	16.0
60°-70°	567.3	11.7
70°-80°	307.9	6.4
80°-90°	73.5	1.5
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°	1377.5	28.4
0°-40°	2241.2	46.3
0°-60°	3893.3	80.4
0°-90°	4842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1776	1773	1776	1776	1778	169
15°	1698	1700	1712	1722	1732	478
25°	1539	1549	1573	1600	1617	709
35°	1332	1342	1379	1420	1439	832
45°	1086	1096	1135	1184	1206	837
55°	818	830	860	901	921	732
65°	538	548	570	594	609	535
75°	273	278	287	302	312	290
85°	58	58	58	63	66	71
90°	0	0	0	0	0	



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CATALOG NUMBER: 24ID-50-L840-CFR1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1782.9	1782.9	1782.9	1782.9	1782.9
2.5°	1782.9	1780.4	1780.4	1780.4	1782.9
5°	1775.6	1773.1	1775.6	1775.6	1778.0
7.5°	1763.4	1760.9	1765.8	1768.3	1770.7
10°	1746.3	1746.3	1753.6	1758.5	1763.4
12.5°	1724.4	1726.8	1734.2	1741.5	1748.8
15°	1697.6	1700.1	1712.2	1722.0	1731.7
17.5°	1663.5	1668.4	1683.0	1697.6	1707.4
20°	1627.0	1634.3	1651.3	1670.8	1683.0
22.5°	1585.6	1595.3	1614.8	1639.2	1651.3
25°	1539.3	1549.0	1573.4	1600.2	1617.2
27.5°	1490.6	1502.8	1529.6	1561.2	1580.7
30°	1439.4	1451.6	1483.3	1517.4	1536.9
32.5°	1383.4	1398.0	1432.1	1471.1	1490.6
35°	1332.3	1342.0	1378.6	1420.0	1439.4
37.5°	1273.8	1286.0	1320.1	1363.9	1385.9
40°	1210.5	1222.7	1261.6	1305.5	1329.8
42.5°	1149.6	1159.3	1198.3	1247.0	1269.0
45°	1086.3	1096.0	1135.0	1183.7	1205.6
47.5°	1020.5	1032.7	1069.2	1115.5	1137.4
50°	954.8	964.5	1001.0	1044.9	1066.8
52.5°	886.6	896.3	930.4	974.2	996.2
55°	818.4	830.5	859.8	901.2	920.7
57.5°	750.2	762.3	789.1	828.1	845.2
60°	682.0	691.7	718.5	752.6	769.7
62.5°	608.9	616.2	643.0	677.1	691.7
65°	538.3	548.0	569.9	594.3	608.9
67.5°	472.5	477.4	496.9	523.7	533.4
70°	404.3	409.2	426.2	448.2	455.5
72.5°	336.1	343.4	355.6	375.1	384.8
75°	272.8	277.7	287.4	302.0	311.8
77.5°	211.9	214.3	221.6	233.8	241.1
80°	153.4	155.9	160.8	170.5	175.4
82.5°	102.3	104.7	107.2	112.0	116.9
85°	58.5	58.5	58.5	63.3	65.8
87.5°	21.9	19.5	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)