

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: P385362

Luminaire Tested: **24ID-50-L830-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-50-L830-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

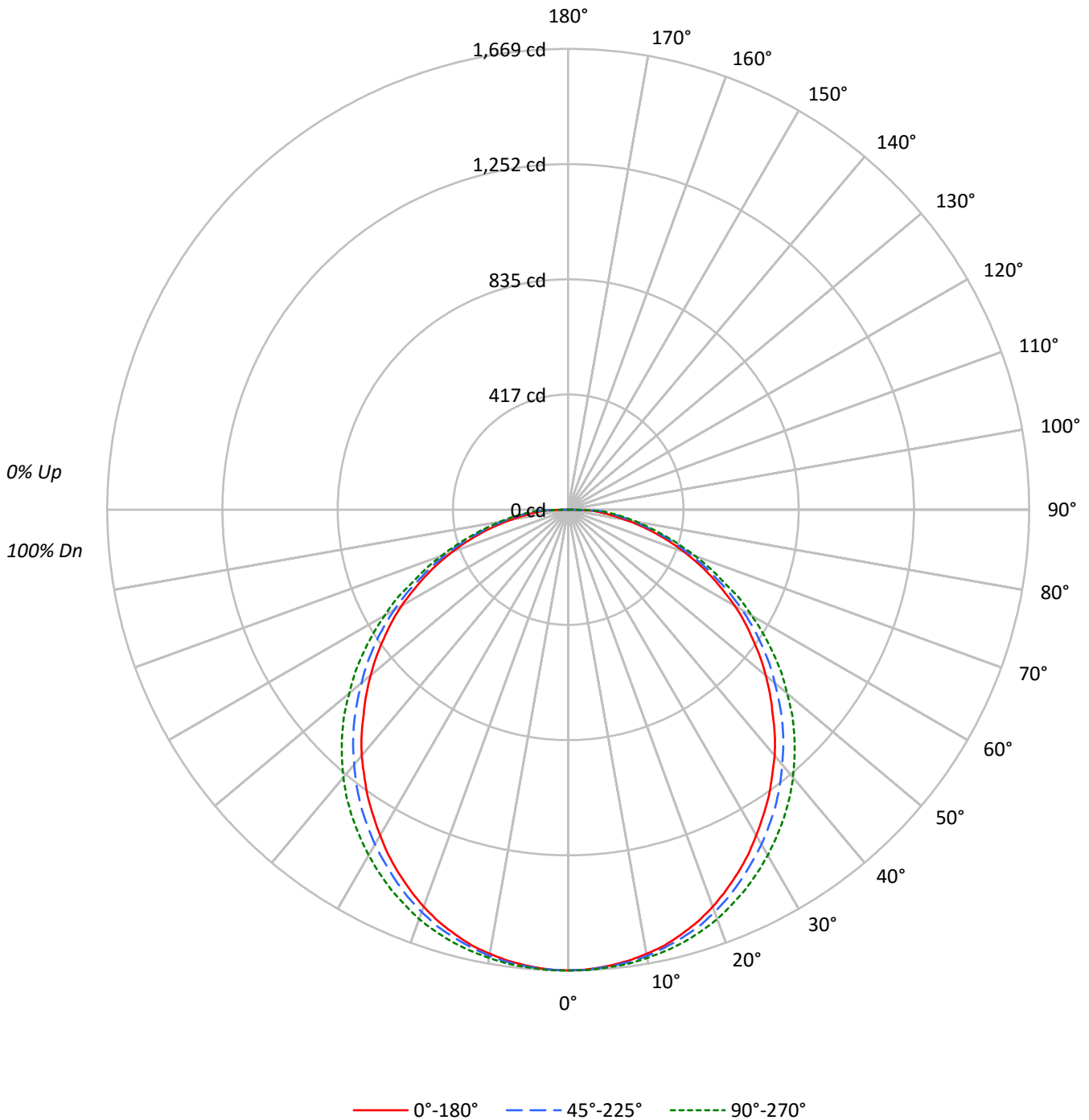
Lumens per Lamp: N/A  
Luminaire Lumens: 4840.3 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 44.1  
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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	2245	2245	2245
5°	2232	2227	2231
10°	2216	2208	2220
15°	2191	2182	2209
20°	2159	2151	2193
25°	2115	2110	2169
30°	2066	2069	2142
35°	2021	2025	2113
40°	1974	1971	2078
45°	1913	1919	2034
50°	1862	1849	1970
55°	1806	1783	1900
60°	1750	1698	1805
65°	1670	1590	1679
70°	1573	1474	1563
75°	1461	1348	1427
80°	1309	1221	1311
85°	1237	1160	1254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.9	3.3
10°-20°	452.5	9.3
20°-30°	682.9	14.1
30°-40°	819.7	16.9
40°-50°	848.3	17.5
50°-60°	768.5	15.9
60°-70°	592.1	12.2
70°-80°	366.4	7.6
80°-90°	152.2	3.1
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°	1293.3	26.7
0°-40°	2113.0	43.7
0°-60°	3729.7	77.1
0°-90°	4840.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1659	1659	1661	1661	1664	158
15°	1591	1593	1603	1614	1621	449
25°	1452	1457	1480	1505	1518	669
35°	1266	1276	1309	1344	1362	792
45°	1047	1062	1098	1138	1158	810
55°	816	828	856	894	906	730
65°	571	576	594	619	622	565
75°	325	332	345	360	360	344
85°	118	131	151	161	159	128
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1668.8	1668.8	1668.8	1668.8	1668.8
2.5°	1666.3	1666.3	1666.3	1666.3	1668.8
5°	1658.8	1658.8	1661.3	1661.3	1663.8
7.5°	1648.7	1648.7	1653.7	1653.7	1658.8
10°	1633.6	1636.1	1641.1	1643.7	1648.7
12.5°	1616.0	1616.0	1623.5	1631.1	1636.1
15°	1590.8	1593.3	1603.4	1613.5	1621.0
17.5°	1563.1	1565.6	1580.7	1590.8	1600.9
20°	1530.4	1532.9	1550.5	1565.6	1578.2
22.5°	1492.6	1497.7	1517.8	1537.9	1548.0
25°	1452.4	1457.4	1480.1	1505.2	1517.8
27.5°	1409.6	1417.1	1439.8	1467.5	1482.6
30°	1361.8	1371.8	1399.5	1429.7	1444.8
32.5°	1313.9	1324.0	1354.2	1389.4	1404.5
35°	1266.1	1276.2	1308.9	1344.1	1361.8
37.5°	1213.2	1223.3	1258.6	1296.3	1316.4
40°	1162.9	1173.0	1205.7	1248.5	1266.1
42.5°	1107.5	1117.6	1152.8	1193.1	1213.2
45°	1047.1	1062.2	1097.5	1137.7	1157.9
47.5°	991.7	1004.3	1037.0	1079.8	1100.0
50°	933.8	946.4	976.6	1019.4	1034.5
52.5°	876.0	888.5	918.7	959.0	974.1
55°	815.5	828.1	855.8	893.6	906.2
57.5°	757.6	767.7	792.9	828.1	838.2
60°	697.2	707.3	727.4	760.2	767.7
62.5°	631.8	639.3	662.0	692.2	702.3
65°	571.4	576.4	594.0	619.2	621.7
67.5°	508.5	513.5	531.1	548.7	556.3
70°	445.5	453.1	465.7	483.3	488.3
72.5°	385.1	392.7	405.3	420.4	422.9
75°	324.7	332.3	344.8	359.9	359.9
77.5°	266.8	274.4	289.5	302.1	302.1
80°	208.9	221.5	236.6	249.2	249.2
82.5°	161.1	171.2	191.3	201.4	201.4
85°	118.3	130.9	151.0	161.1	158.6
87.5°	85.6	98.2	115.8	123.3	120.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)