

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: P385364

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

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385364  
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-L840-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

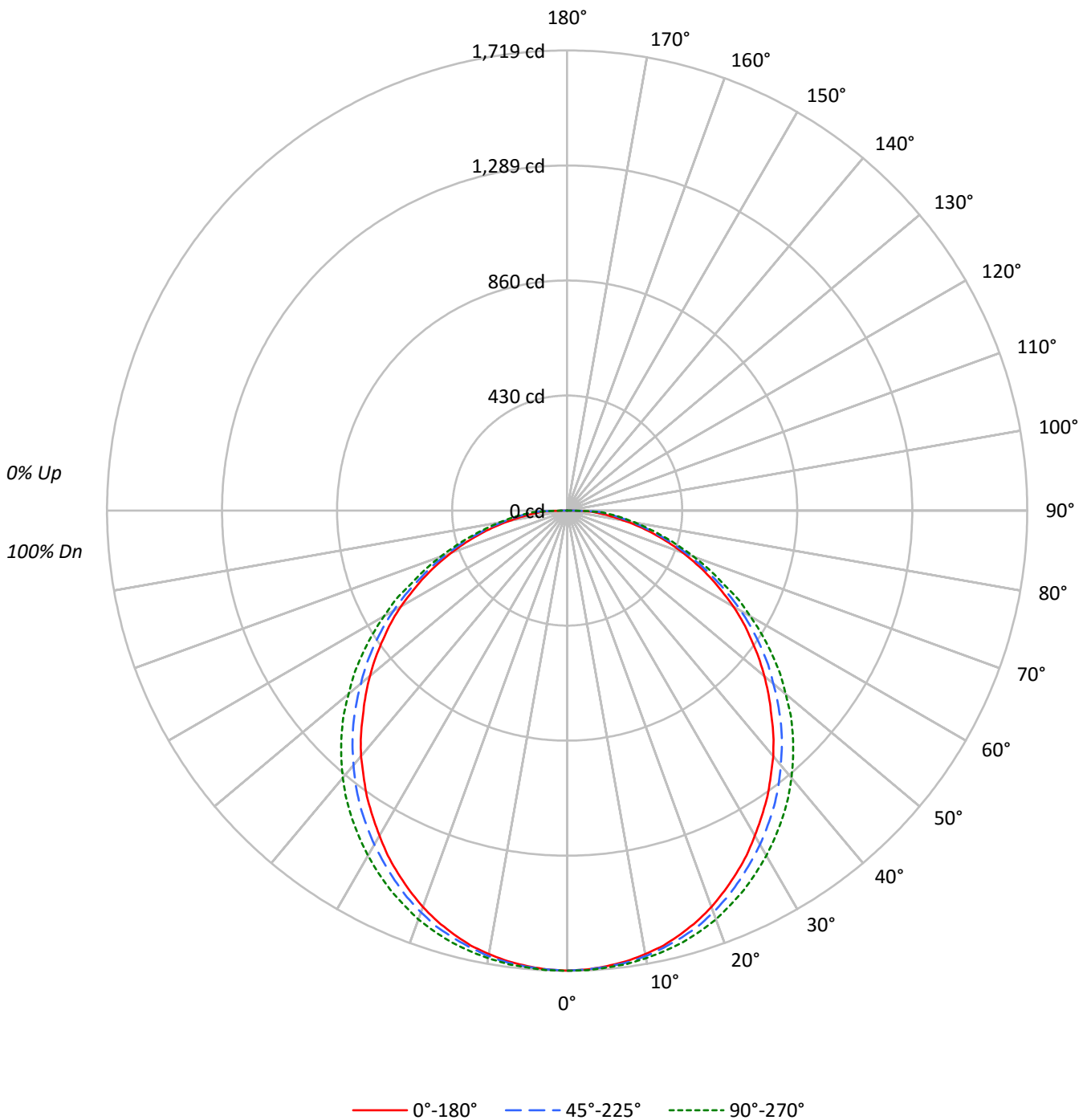
Lumens per Lamp: N/A  
Luminaire Lumens: 4984.6 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 44  
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	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°	2312	2312	2312
5°	2299	2293	2297
10°	2282	2274	2286
15°	2257	2247	2274
20°	2223	2215	2259
25°	2178	2173	2234
30°	2127	2130	2206
35°	2081	2085	2176
40°	2032	2030	2140
45°	1970	1976	2094
50°	1918	1905	2029
55°	1860	1836	1956
60°	1802	1748	1859
65°	1720	1637	1729
70°	1619	1518	1610
75°	1504	1388	1470
80°	1348	1258	1350
85°	1274	1194	1291



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.6	3.3
10°-20°	466.0	9.3
20°-30°	703.2	14.1
30°-40°	844.1	16.9
40°-50°	873.6	17.5
50°-60°	791.4	15.9
60°-70°	609.7	12.2
70°-80°	377.3	7.6
80°-90°	156.7	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°	1331.9	26.7
0°-40°	2176.0	43.7
0°-60°	3840.9	77.1
0°-90°	4984.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4984.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1708	1708	1711	1711	1713	162
15°	1638	1641	1651	1662	1669	462
25°	1496	1501	1524	1550	1563	689
35°	1304	1314	1348	1384	1402	815
45°	1078	1094	1130	1172	1192	834
55°	840	853	881	920	933	752
65°	588	594	612	638	640	582
75°	334	342	355	371	371	354
85°	122	135	156	166	163	132
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1718.6	1718.6	1718.6	1718.6	1718.6
2.5°	1716.0	1716.0	1716.0	1716.0	1718.6
5°	1708.2	1708.2	1710.8	1710.8	1713.4
7.5°	1697.9	1697.9	1703.0	1703.0	1708.2
10°	1682.3	1684.9	1690.1	1692.7	1697.9
12.5°	1664.2	1664.2	1671.9	1679.7	1684.9
15°	1638.2	1640.8	1651.2	1661.6	1669.3
17.5°	1609.7	1612.3	1627.9	1638.2	1648.6
20°	1576.0	1578.6	1596.8	1612.3	1625.3
22.5°	1537.1	1542.3	1563.1	1583.8	1594.2
25°	1495.7	1500.8	1524.2	1550.1	1563.1
27.5°	1451.6	1459.4	1482.7	1511.2	1526.8
30°	1402.3	1412.7	1441.2	1472.3	1487.9
32.5°	1353.1	1363.5	1394.6	1430.9	1446.4
35°	1303.8	1314.2	1347.9	1384.2	1402.3
37.5°	1249.4	1259.8	1296.1	1335.0	1355.7
40°	1197.6	1207.9	1241.6	1285.7	1303.8
42.5°	1140.5	1150.9	1187.2	1228.7	1249.4
45°	1078.3	1093.9	1130.2	1171.6	1192.4
47.5°	1021.3	1034.3	1068.0	1112.0	1132.8
50°	961.7	974.6	1005.8	1049.8	1065.4
52.5°	902.1	915.0	946.1	987.6	1003.2
55°	839.9	852.8	881.3	920.2	933.2
57.5°	780.2	790.6	816.5	852.8	863.2
60°	718.0	728.4	749.1	782.8	790.6
62.5°	650.6	658.4	681.7	712.8	723.2
65°	588.4	593.6	611.7	637.7	640.3
67.5°	523.6	528.8	546.9	565.1	572.9
70°	458.8	466.6	479.5	497.7	502.9
72.5°	396.6	404.4	417.3	432.9	435.5
75°	334.4	342.2	355.1	370.7	370.7
77.5°	274.8	282.5	298.1	311.1	311.1
80°	215.1	228.1	243.7	256.6	256.6
82.5°	165.9	176.3	197.0	207.4	207.4
85°	121.8	134.8	155.5	165.9	163.3
87.5°	88.1	101.1	119.2	127.0	124.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)