

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: P385361

Luminaire Tested: **24ID-45-L850-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385361  
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-45-L850-CNV  
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

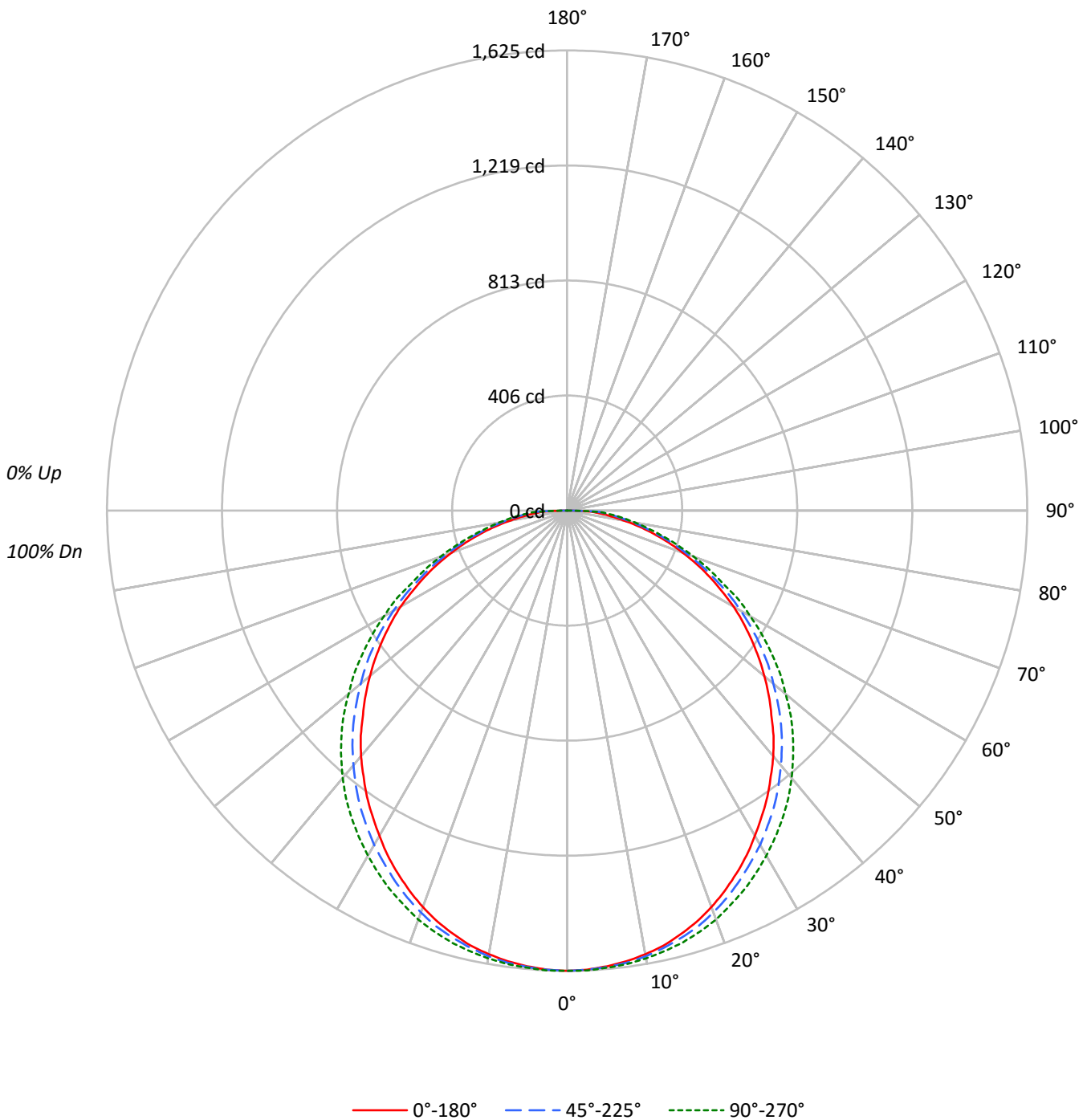
Lumens per Lamp: N/A  
Luminaire Lumens: 4713.6 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 40  
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°	2187	2187	2187
5°	2174	2168	2173
10°	2158	2150	2162
15°	2134	2125	2151
20°	2102	2095	2136
25°	2060	2055	2112
30°	2012	2015	2086
35°	1968	1972	2058
40°	1922	1920	2024
45°	1863	1868	1981
50°	1814	1801	1918
55°	1758	1736	1850
60°	1704	1653	1758
65°	1626	1548	1635
70°	1532	1435	1522
75°	1423	1313	1390
80°	1275	1189	1277
85°	1205	1130	1221



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.8	3.3
10°-20°	440.7	9.3
20°-30°	665.0	14.1
30°-40°	798.2	16.9
40°-50°	826.1	17.5
50°-60°	748.4	15.9
60°-70°	576.6	12.2
70°-80°	356.8	7.6
80°-90°	148.2	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°	1259.5	26.7
0°-40°	2057.7	43.7
0°-60°	3632.1	77.1
0°-90°	4713.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1615	1615	1618	1618	1620	153
15°	1549	1552	1561	1571	1579	437
25°	1414	1419	1441	1466	1478	651
35°	1233	1243	1275	1309	1326	771
45°	1020	1034	1069	1108	1128	789
55°	794	806	833	870	882	711
65°	556	561	578	603	605	550
75°	316	324	336	350	350	335
85°	115	128	147	157	154	124
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1625.2	1625.2	1625.2	1625.2	1625.2
2.5°	1622.7	1622.7	1622.7	1622.7	1625.2
5°	1615.3	1615.3	1617.8	1617.8	1620.3
7.5°	1605.5	1605.5	1610.4	1610.4	1615.3
10°	1590.8	1593.3	1598.2	1600.6	1605.5
12.5°	1573.7	1573.7	1581.0	1588.4	1593.3
15°	1549.2	1551.6	1561.4	1571.2	1578.6
17.5°	1522.2	1524.7	1539.4	1549.2	1559.0
20°	1490.3	1492.8	1509.9	1524.7	1536.9
22.5°	1453.6	1458.5	1478.1	1497.7	1507.5
25°	1414.3	1419.3	1441.3	1465.8	1478.1
27.5°	1372.7	1380.0	1402.1	1429.1	1443.8
30°	1326.1	1335.9	1362.9	1392.3	1407.0
32.5°	1279.5	1289.3	1318.8	1353.1	1367.8
35°	1233.0	1242.8	1274.6	1308.9	1326.1
37.5°	1181.5	1191.3	1225.6	1262.4	1282.0
40°	1132.5	1142.3	1174.1	1215.8	1233.0
42.5°	1078.5	1088.3	1122.7	1161.9	1181.5
45°	1019.7	1034.4	1068.7	1107.9	1127.6
47.5°	965.8	978.0	1009.9	1051.6	1071.2
50°	909.4	921.7	951.1	992.7	1007.4
52.5°	853.0	865.3	894.7	933.9	948.6
55°	794.2	806.4	833.4	870.2	882.4
57.5°	737.8	747.6	772.1	806.4	816.3
60°	679.0	688.8	708.4	740.3	747.6
62.5°	615.3	622.6	644.7	674.1	683.9
65°	556.4	561.3	578.5	603.0	605.4
67.5°	495.1	500.0	517.2	534.4	541.7
70°	433.9	441.2	453.5	470.6	475.5
72.5°	375.0	382.4	394.6	409.4	411.8
75°	316.2	323.6	335.8	350.5	350.5
77.5°	259.8	267.2	281.9	294.1	294.1
80°	203.5	215.7	230.4	242.7	242.7
82.5°	156.9	166.7	186.3	196.1	196.1
85°	115.2	127.5	147.1	156.9	154.4
87.5°	83.3	95.6	112.8	120.1	117.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)