

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: P383849

Luminaire Tested: **24ID-45-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383849
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-45-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

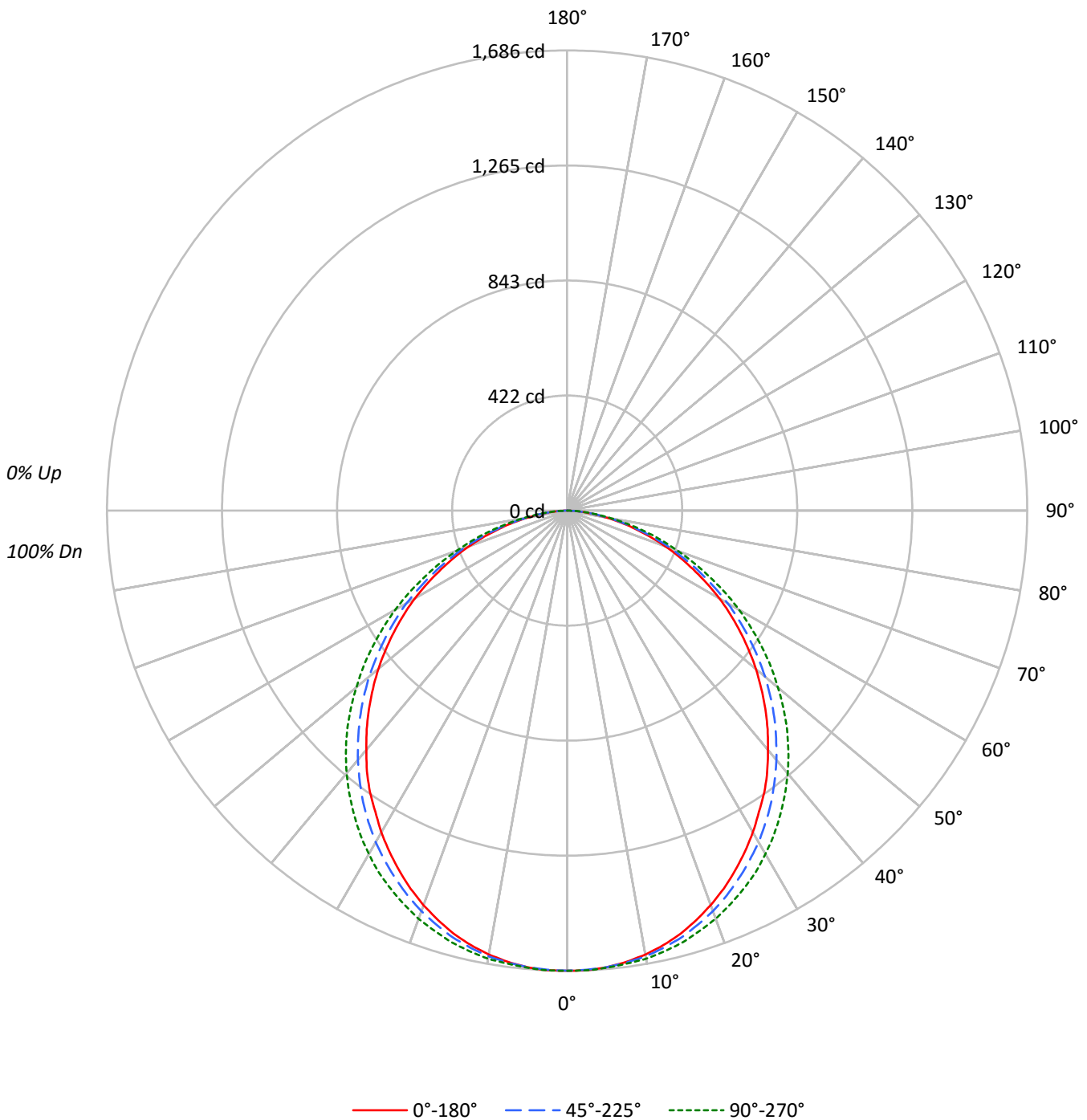
Lumens per Lamp: N/A
Luminaire Lumens: 4578.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	2268	2268	2268
5°	2268	2268	2271
10°	2256	2266	2278
15°	2236	2255	2281
20°	2203	2236	2279
25°	2161	2209	2270
30°	2115	2179	2258
35°	2069	2141	2236
40°	2011	2096	2209
45°	1955	2042	2169
50°	1890	1981	2112
55°	1815	1907	2042
60°	1735	1828	1958
65°	1621	1716	1833
70°	1504	1586	1694
75°	1341	1413	1533
80°	1124	1178	1285
85°	854	854	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	3.5
10°-20°	456.6	10.0
20°-30°	686.5	15.0
30°-40°	816.7	17.8
40°-50°	831.0	18.1
50°-60°	731.3	16.0
60°-70°	536.5	11.7
70°-80°	291.2	6.4
80°-90°	69.5	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°	1302.7	28.4
0°-40°	2119.3	46.3
0°-60°	3681.7	80.4
0°-90°	4578.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4578.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1679	1677	1679	1679	1681	159
15°	1605	1608	1619	1628	1638	452
25°	1456	1465	1488	1513	1529	670
35°	1260	1269	1304	1343	1361	787
45°	1027	1036	1073	1119	1140	792
55°	774	785	813	852	871	692
65°	509	518	539	562	576	506
75°	258	263	272	286	295	274
85°	55	55	55	60	62	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.0	1686.0	1686.0	1686.0	1686.0
2.5°	1686.0	1683.6	1683.6	1683.6	1686.0
5°	1679.0	1676.7	1679.0	1679.0	1681.3
7.5°	1667.5	1665.2	1669.8	1672.1	1674.4
10°	1651.4	1651.4	1658.3	1662.9	1667.5
12.5°	1630.7	1633.0	1639.9	1646.8	1653.7
15°	1605.3	1607.6	1619.2	1628.4	1637.6
17.5°	1573.1	1577.7	1591.5	1605.3	1614.6
20°	1538.5	1545.5	1561.6	1580.0	1591.5
22.5°	1499.4	1508.6	1527.0	1550.1	1561.6
25°	1455.6	1464.8	1487.9	1513.2	1529.3
27.5°	1409.6	1421.1	1446.4	1476.4	1494.8
30°	1361.2	1372.7	1402.7	1434.9	1453.3
32.5°	1308.2	1322.0	1354.3	1391.1	1409.6
35°	1259.9	1269.1	1303.6	1342.8	1361.2
37.5°	1204.6	1216.1	1248.3	1289.8	1310.5
40°	1144.7	1156.2	1193.1	1234.5	1257.6
42.5°	1087.1	1096.3	1133.2	1179.2	1200.0
45°	1027.2	1036.4	1073.3	1119.4	1140.1
47.5°	965.0	976.6	1011.1	1054.9	1075.6
50°	902.9	912.1	946.6	988.1	1008.8
52.5°	838.4	847.6	879.8	921.3	942.0
55°	773.9	785.4	813.0	852.2	870.6
57.5°	709.4	720.9	746.2	783.1	799.2
60°	644.9	654.1	679.4	711.7	727.8
62.5°	575.8	582.7	608.0	640.3	654.1
65°	509.0	518.2	539.0	562.0	575.8
67.5°	446.8	451.4	469.9	495.2	504.4
70°	382.3	386.9	403.1	423.8	430.7
72.5°	317.8	324.8	336.3	354.7	363.9
75°	258.0	262.6	271.8	285.6	294.8
77.5°	200.4	202.7	209.6	221.1	228.0
80°	145.1	147.4	152.0	161.2	165.8
82.5°	96.7	99.0	101.3	105.9	110.6
85°	55.3	55.3	55.3	59.9	62.2
87.5°	20.7	18.4	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)