

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: P384353

Luminaire Tested: **24ID-45-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

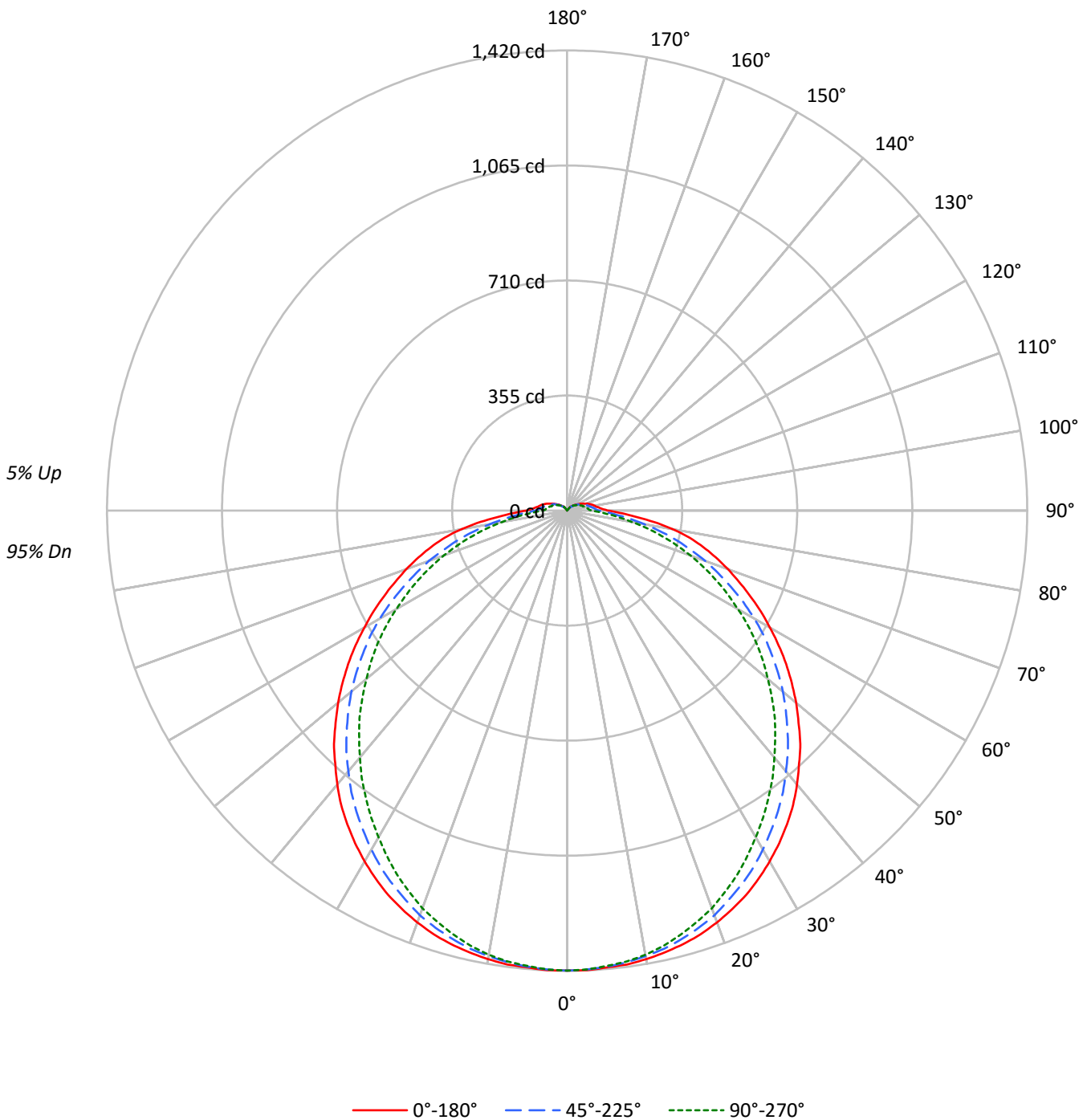
Lumens per Lamp: N/A
Luminaire Lumens: 4604.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1910	1910	1910
5°	1904	1893	1891
10°	1907	1879	1874
15°	1908	1862	1846
20°	1907	1844	1815
25°	1905	1815	1773
30°	1896	1786	1725
35°	1887	1754	1680
40°	1873	1717	1632
45°	1859	1682	1592
50°	1839	1646	1540
55°	1826	1602	1495
60°	1814	1556	1431
65°	1820	1492	1368
70°	1862	1434	1294
75°	1955	1353	1198
80°	2083	1247	1076
85°	2187	1177	992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	2.9
10°-20°	386.4	8.4
20°-30°	586.8	12.7
30°-40°	708.8	15.4
40°-50°	741.9	16.1
50°-60°	688.4	15.0
60°-70°	557.6	12.1
70°-80°	376.3	8.2
80°-90°	181.8	3.9
90°-100°	91.5	2.0
100°-110°	66.5	1.4
110°-120°	44.4	1.0
120°-130°	25.8	0.6
130°-140°	13.0	0.3
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1107.5	24.1
0°-40°	1816.3	39.4
0°-60°	3246.6	70.5
0°-90°	4362.3	94.7
90°-120°	202.4	4.4
90°-150°	242.1	5.3
90°-180°	242.0	5.3
0°-180°	4604.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1415	1413	1413	1410	1410	135
15°	1385	1378	1368	1359	1355	391
25°	1308	1296	1273	1250	1241	603
35°	1183	1166	1134	1099	1083	740
45°	1018	999	962	922	906	784
55°	825	806	769	732	713	737
65°	623	599	558	527	506	618
75°	434	390	346	321	302	458
85°	209	181	153	139	126	198
90°	126	114	98	88	74	72
95°	100	93	84	74	65	78
105°	74	70	63	56	51	79
115°	51	46	46	40	40	51
125°	32	28	30	26	28	29
135°	19	16	16	16	19	14
145°	0	0	0	0	0	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.6	1419.6	1419.6	1419.6	1419.6
2.5°	1419.6	1417.3	1417.3	1417.3	1417.3
5°	1415.0	1412.7	1412.7	1410.3	1410.3
7.5°	1412.7	1408.0	1405.7	1403.4	1403.4
10°	1405.7	1401.0	1396.4	1391.7	1391.7
12.5°	1396.4	1391.7	1384.8	1375.5	1375.5
15°	1384.8	1377.8	1368.5	1359.2	1354.6
17.5°	1370.8	1363.9	1349.9	1336.0	1331.3
20°	1352.2	1342.9	1329.0	1310.4	1305.8
22.5°	1331.3	1322.0	1301.1	1282.5	1273.2
25°	1308.1	1296.5	1273.2	1250.0	1240.7
27.5°	1280.2	1268.6	1243.0	1215.2	1203.5
30°	1250.0	1236.1	1208.2	1178.0	1164.0
32.5°	1217.5	1201.2	1171.0	1138.5	1124.5
35°	1182.6	1166.4	1133.8	1099.0	1082.7
37.5°	1145.5	1129.2	1094.3	1057.2	1040.9
40°	1103.6	1087.4	1050.2	1013.0	994.4
42.5°	1059.5	1045.5	1008.4	968.9	950.3
45°	1017.7	999.1	961.9	922.4	906.1
47.5°	968.9	954.9	915.4	875.9	857.4
50°	922.4	906.1	869.0	829.5	808.6
52.5°	873.6	859.7	820.2	780.7	762.1
55°	824.8	806.2	769.1	731.9	713.3
57.5°	773.7	757.4	720.3	685.4	662.2
60°	722.6	706.3	666.8	634.3	608.7
62.5°	673.8	655.2	613.4	578.5	557.6
65°	622.7	599.4	557.6	527.4	506.5
67.5°	573.9	546.0	504.2	476.3	455.4
70°	527.4	494.9	453.1	425.2	404.3
72.5°	481.0	441.5	397.3	371.8	353.2
75°	434.5	390.3	346.2	320.6	302.0
77.5°	388.0	336.9	292.8	271.8	253.3
80°	332.3	283.5	241.6	223.1	204.5
82.5°	269.5	230.0	195.2	176.6	162.6
85°	209.1	181.2	153.3	139.4	125.5
87.5°	162.6	141.7	120.8	109.2	97.6
90°	125.5	113.8	97.6	88.3	74.4
92.5°	109.2	99.9	88.3	79.0	67.4
95°	99.9	92.9	83.6	74.4	65.1
97.5°	90.6	86.0	76.7	69.7	60.4
100°	86.0	79.0	72.0	65.1	58.1
102.5°	81.3	74.4	67.4	60.4	55.8
105°	74.4	69.7	62.7	55.8	51.1
107.5°	69.7	62.7	58.1	51.1	48.8
110°	62.7	58.1	53.4	48.8	46.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.8	53.4	48.8	44.1	41.8
115°	51.1	46.5	46.5	39.5	39.5
117.5°	46.5	41.8	41.8	37.2	37.2
120°	39.5	37.2	37.2	32.5	32.5
122.5°	34.9	32.5	32.5	30.2	30.2
125°	32.5	27.9	30.2	25.6	27.9
127.5°	27.9	25.6	25.6	23.2	25.6
130°	23.2	20.9	20.9	20.9	23.2
132.5°	20.9	18.6	18.6	18.6	20.9
135°	18.6	16.3	16.3	16.3	18.6
137.5°	16.3	13.9	11.6	13.9	16.3
140°	13.9	11.6	9.3	11.6	13.9
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)