

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: P384365

Luminaire Tested: **24ID-60-L850-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384365
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-60-L850-CFD2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

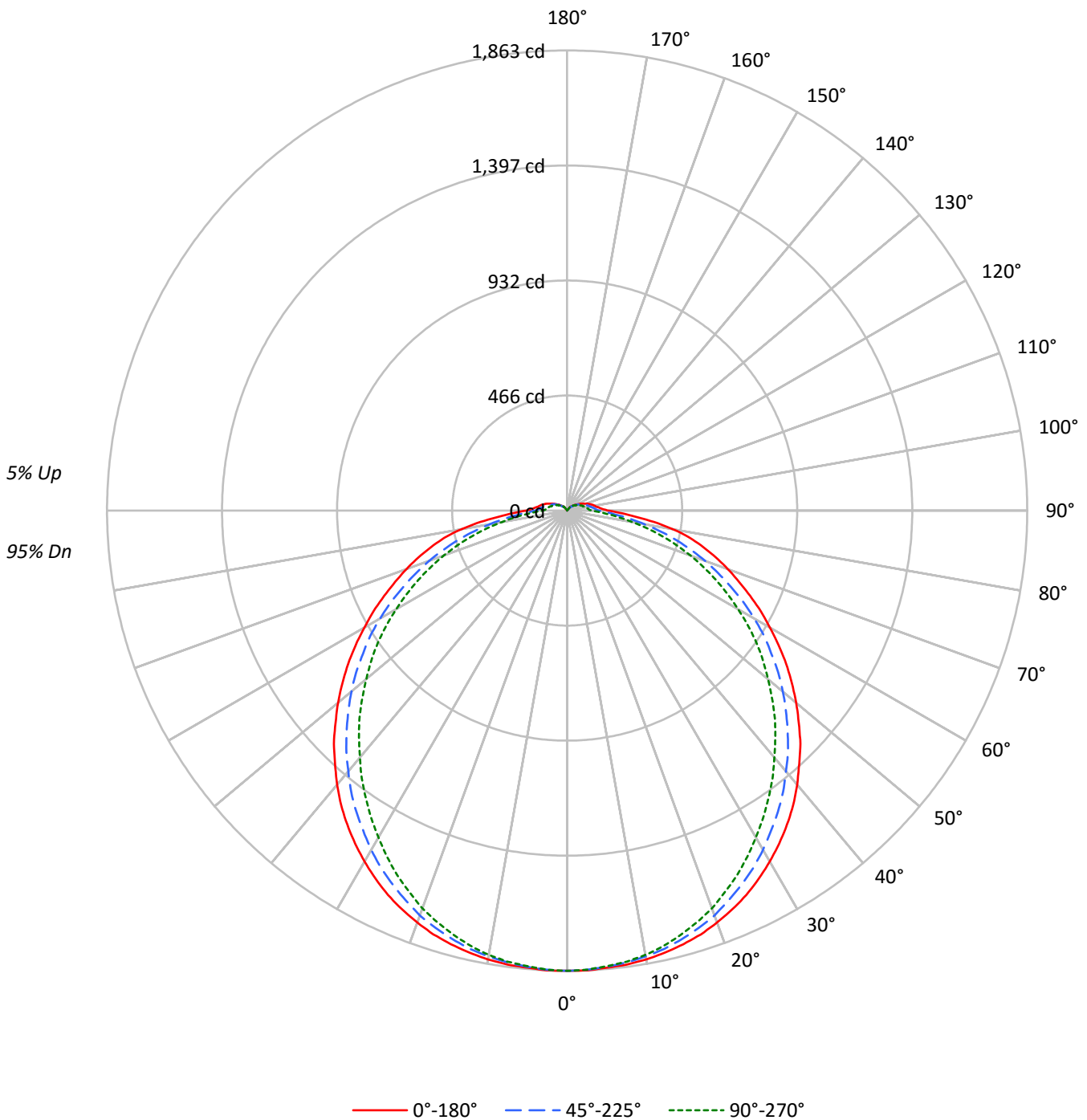
Lumens per Lamp: N/A
Luminaire Lumens: 6043.3 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 54.6
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°	2507	2507	2507
5°	2499	2485	2482
10°	2502	2466	2460
15°	2504	2444	2422
20°	2503	2420	2382
25°	2500	2383	2327
30°	2489	2344	2265
35°	2477	2302	2206
40°	2458	2254	2143
45°	2440	2207	2089
50°	2414	2160	2021
55°	2397	2102	1963
60°	2380	2042	1879
65°	2389	1959	1796
70°	2443	1882	1698
75°	2566	1776	1572
80°	2733	1637	1412
85°	2871	1546	1302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	2.9
10°-20°	507.1	8.4
20°-30°	770.2	12.7
30°-40°	930.3	15.4
40°-50°	973.7	16.1
50°-60°	903.5	15.0
60°-70°	731.8	12.1
70°-80°	493.9	8.2
80°-90°	238.6	3.9
90°-100°	120.0	2.0
100°-110°	87.2	1.4
110°-120°	58.3	1.0
120°-130°	33.8	0.6
130°-140°	17.0	0.3
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1453.6	24.1
0°-40°	2384.0	39.4
0°-60°	4261.2	70.5
0°-90°	5725.6	94.7
90°-120°	265.6	4.4
90°-150°	317.7	5.3
90°-180°	318.0	5.3
0°-180°	6043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1863	1863	1863	1863	1863	
5°	1857	1854	1854	1851	1851	177
15°	1818	1808	1796	1784	1778	513
25°	1717	1702	1671	1641	1628	791
35°	1552	1531	1488	1442	1421	971
45°	1336	1311	1262	1211	1189	1029
55°	1083	1058	1009	961	936	968
65°	817	787	732	692	665	811
75°	570	512	454	421	396	601
85°	274	238	201	183	165	259
90°	165	149	128	116	98	94
95°	131	122	110	98	85	103
105°	98	92	82	73	67	104
115°	67	61	61	52	52	67
125°	43	37	40	34	37	37
135°	24	21	21	21	24	19
145°	0	0	0	0	0	2
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°	1863.3	1863.3	1863.3	1863.3	1863.3
2.5°	1863.3	1860.2	1860.2	1860.2	1860.2
5°	1857.2	1854.1	1854.1	1851.1	1851.1
7.5°	1854.1	1848.0	1845.0	1841.9	1841.9
10°	1845.0	1838.9	1832.8	1826.7	1826.7
12.5°	1832.8	1826.7	1817.5	1805.3	1805.3
15°	1817.5	1808.4	1796.2	1784.0	1777.9
17.5°	1799.2	1790.1	1771.8	1753.5	1747.4
20°	1774.8	1762.6	1744.3	1719.9	1713.8
22.5°	1747.4	1735.2	1707.7	1683.3	1671.1
25°	1716.9	1701.6	1671.1	1640.6	1628.4
27.5°	1680.3	1665.0	1631.5	1594.9	1579.7
30°	1640.6	1622.4	1585.8	1546.1	1527.8
32.5°	1598.0	1576.6	1537.0	1494.3	1476.0
35°	1552.2	1530.9	1488.2	1442.4	1421.1
37.5°	1503.4	1482.1	1436.3	1387.5	1366.2
40°	1448.5	1427.2	1378.4	1329.6	1305.2
42.5°	1390.6	1372.3	1323.5	1271.7	1247.3
45°	1335.7	1311.3	1262.5	1210.7	1189.3
47.5°	1271.7	1253.4	1201.5	1149.7	1125.3
50°	1210.7	1189.3	1140.5	1088.7	1061.2
52.5°	1146.6	1128.3	1076.5	1024.6	1000.2
55°	1082.6	1058.2	1009.4	960.6	936.2
57.5°	1015.5	994.1	945.4	899.6	869.1
60°	948.4	927.1	875.2	832.5	799.0
62.5°	884.4	860.0	805.1	759.3	731.9
65°	817.3	786.8	731.9	692.2	664.8
67.5°	753.2	716.6	661.7	625.2	597.7
70°	692.2	649.5	594.7	558.1	530.6
72.5°	631.3	579.4	521.5	487.9	463.5
75°	570.3	512.3	454.4	420.8	396.4
77.5°	509.3	442.2	384.2	356.8	332.4
80°	436.1	372.0	317.2	292.8	268.4
82.5°	353.7	301.9	256.2	231.8	213.5
85°	274.5	237.9	201.3	183.0	164.7
87.5°	213.5	186.0	158.6	143.3	128.1
90°	164.7	149.4	128.1	115.9	97.6
92.5°	143.3	131.1	115.9	103.7	88.4
95°	131.1	122.0	109.8	97.6	85.4
97.5°	118.9	112.8	100.6	91.5	79.3
100°	112.8	103.7	94.5	85.4	76.2
102.5°	106.7	97.6	88.4	79.3	73.2
105°	97.6	91.5	82.3	73.2	67.1
107.5°	91.5	82.3	76.2	67.1	64.0
110°	82.3	76.2	70.1	64.0	61.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.2	70.1	64.0	57.9	54.9
115°	67.1	61.0	61.0	51.8	51.8
117.5°	61.0	54.9	54.9	48.8	48.8
120°	51.8	48.8	48.8	42.7	42.7
122.5°	45.7	42.7	42.7	39.6	39.6
125°	42.7	36.6	39.6	33.5	36.6
127.5°	36.6	33.5	33.5	30.5	33.5
130°	30.5	27.4	27.4	27.4	30.5
132.5°	27.4	24.4	24.4	24.4	27.4
135°	24.4	21.3	21.3	21.3	24.4
137.5°	21.3	18.3	15.2	18.3	21.3
140°	18.3	15.2	12.2	15.2	18.3
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)