

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: P384665

Luminaire Tested: **22ID-80-L850-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-80-L850-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

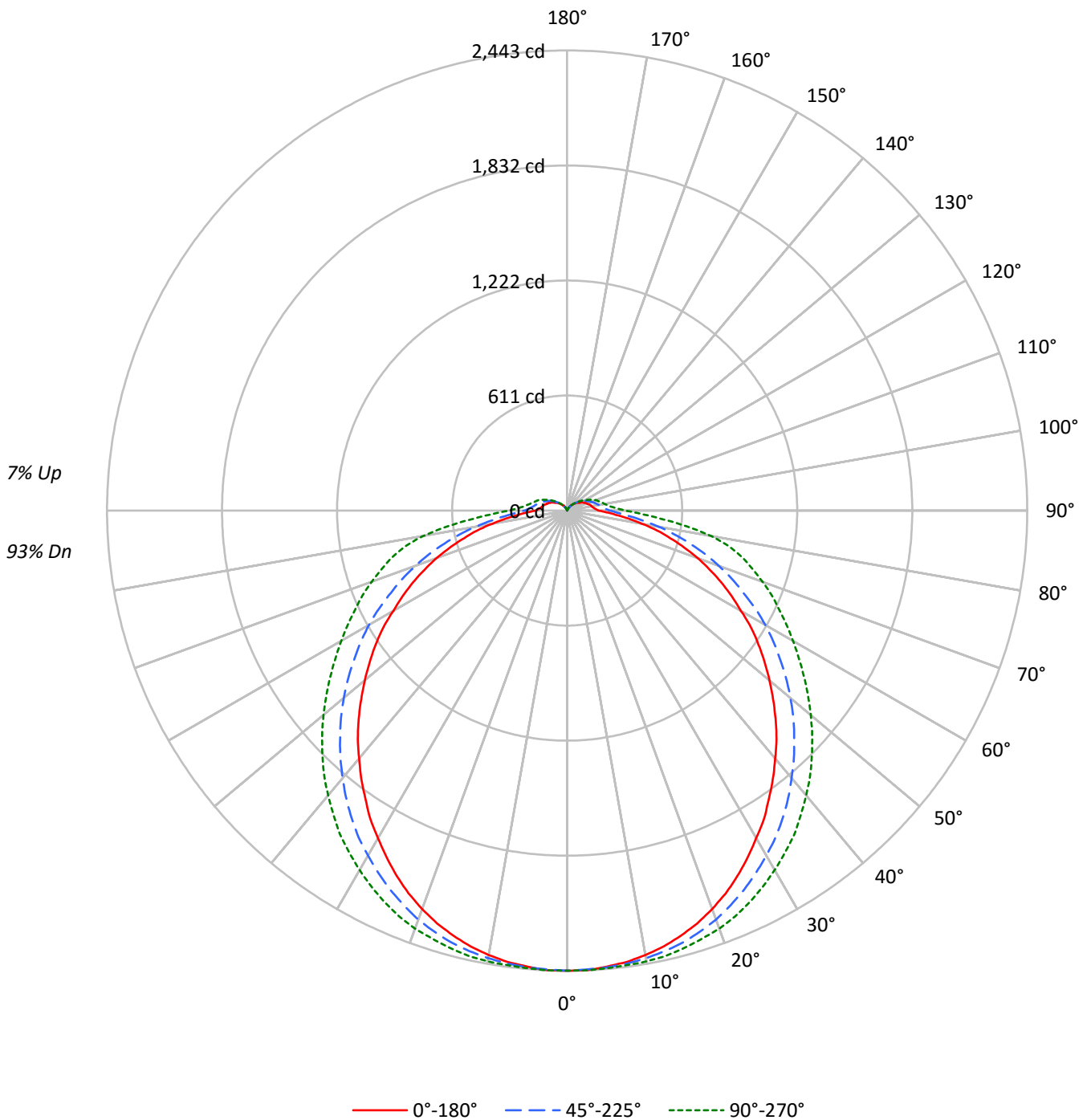
Lumens per Lamp: N/A
Luminaire Lumens: 8547.6 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 71.8
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



TEST NUMBER: P384665
CATALOG NUMBER: 22ID-80-L850-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384665

CATALOG NUMBER: 22ID-80-L850-CFD3

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6573	6573	6573
5°	6493	6475	6515
10°	6405	6394	6496
15°	6297	6316	6481
20°	6165	6217	6469
25°	6004	6092	6434
30°	5819	5962	6387
35°	5640	5832	6348
40°	5462	5672	6275
45°	5292	5514	6215
50°	5110	5351	6151
55°	4938	5174	6109
60°	4715	5006	6129
65°	4538	4763	6229
70°	4319	4537	6466
75°	4020	4219	6830
80°	3673	3827	7035
85°	3305	3355	6341



TEST NUMBER: P384665

CATALOG NUMBER: 22ID-80-L850-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	2.7
10°-20°	669.3	7.8
20°-30°	1022.6	12.0
30°-40°	1244.7	14.6
40°-50°	1315.6	15.4
50°-60°	1241.8	14.5
60°-70°	1044.8	12.2
70°-80°	753.2	8.8
80°-90°	397.3	4.6
90°-100°	212.6	2.5
100°-110°	161.5	1.9
110°-120°	117.1	1.4
120°-130°	73.5	0.9
130°-140°	39.8	0.5
140°-150°	17.4	0.2
150°-160°	4.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1923.4	22.5
0°-40°	3168.2	37.1
0°-60°	5725.6	67.0
0°-90°	7920.9	92.7
90°-120°	491.3	5.7
90°-150°	621.9	7.3
90°-180°	627.0	7.3
0°-180°	8547.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2430	2430	2434	2434	2438	231
15°	2336	2345	2374	2391	2404	659
25°	2140	2166	2221	2272	2293	985
35°	1867	1910	1995	2072	2102	1169
45°	1564	1611	1705	1799	1837	1207
55°	1240	1296	1381	1484	1535	1109
65°	904	955	1032	1160	1240	893
75°	567	614	674	806	963	602
85°	260	294	328	409	499	244
90°	166	196	226	269	307	95
95°	145	166	192	217	234	116
105°	124	136	154	170	179	129
115°	98	107	119	128	136	99
125°	72	72	85	85	90	65
135°	51	47	51	51	55	39
145°	30	26	26	26	30	19
155°	13	13	4	8	13	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384665

CATALOG NUMBER: 22ID-80-L850-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2442.6	2442.6	2442.6	2442.6	2442.6
2.5°	2442.6	2438.3	2438.3	2438.3	2442.6
5°	2429.8	2429.8	2434.1	2434.1	2438.3
7.5°	2417.0	2417.0	2425.5	2429.8	2434.1
10°	2395.7	2400.0	2412.8	2421.3	2429.8
12.5°	2370.1	2374.4	2395.7	2412.8	2421.3
15°	2336.0	2344.6	2374.4	2391.4	2404.2
17.5°	2297.7	2310.5	2344.6	2370.1	2382.9
20°	2250.8	2267.8	2310.5	2344.6	2361.6
22.5°	2199.6	2216.7	2267.8	2310.5	2331.8
25°	2139.9	2165.5	2220.9	2272.1	2293.4
27.5°	2076.0	2105.8	2169.8	2229.5	2250.8
30°	2007.8	2041.9	2114.4	2178.3	2203.9
32.5°	1943.9	1978.0	2058.9	2127.2	2152.7
35°	1867.1	1909.7	1995.0	2071.7	2101.6
37.5°	1794.7	1837.3	1926.8	2007.8	2037.6
40°	1717.9	1760.5	1854.3	1943.9	1973.7
42.5°	1645.5	1688.1	1781.9	1875.6	1909.7
45°	1564.5	1611.3	1705.1	1798.9	1837.3
47.5°	1483.5	1530.4	1628.4	1726.4	1764.8
50°	1402.5	1453.6	1547.4	1645.5	1688.1
52.5°	1321.5	1372.6	1466.4	1568.7	1611.3
55°	1240.5	1295.9	1381.2	1483.5	1534.6
57.5°	1159.5	1214.9	1300.2	1406.7	1457.9
60°	1065.7	1129.6	1214.9	1325.7	1385.4
62.5°	984.7	1040.1	1125.4	1240.5	1313.0
65°	903.7	954.9	1031.6	1159.5	1240.5
67.5°	818.5	873.9	946.3	1065.7	1176.5
70°	737.5	784.4	856.8	980.5	1104.1
72.5°	652.2	699.1	767.3	895.2	1031.6
75°	567.0	613.8	673.5	805.7	963.4
77.5°	490.2	528.6	584.0	711.9	882.4
80°	405.0	443.3	494.5	609.6	775.8
82.5°	328.2	362.3	405.0	507.3	639.4
85°	260.0	294.1	328.2	409.2	498.8
87.5°	208.9	234.5	268.6	328.2	387.9
90°	166.3	196.1	225.9	268.6	306.9
92.5°	153.5	179.0	204.6	238.7	264.3
95°	144.9	166.3	191.8	217.4	234.5
97.5°	136.4	157.7	179.0	204.6	217.4
100°	132.1	149.2	170.5	191.8	200.4
102.5°	127.9	140.7	162.0	179.0	191.8
105°	123.6	136.4	153.5	170.5	179.0
107.5°	115.1	127.9	144.9	162.0	170.5
110°	110.8	119.4	136.4	149.2	162.0



TEST NUMBER: P384665

CATALOG NUMBER: 22ID-80-L850-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.6	115.1	127.9	140.7	149.2
115°	98.0	106.6	119.4	127.9	136.4
117.5°	93.8	98.0	110.8	115.1	123.6
120°	85.3	89.5	102.3	106.6	110.8
122.5°	76.7	81.0	93.8	93.8	102.3
125°	72.5	72.5	85.3	85.3	89.5
127.5°	68.2	68.2	76.7	76.7	81.0
130°	59.7	59.7	68.2	68.2	68.2
132.5°	55.4	51.2	59.7	59.7	63.9
135°	51.2	46.9	51.2	51.2	55.4
137.5°	42.6	42.6	46.9	42.6	46.9
140°	38.4	34.1	38.4	38.4	42.6
142.5°	34.1	29.8	34.1	29.8	34.1
145°	29.8	25.6	25.6	25.6	29.8
147.5°	25.6	21.3	21.3	21.3	25.6
150°	21.3	17.1	17.1	17.1	21.3
152.5°	17.1	12.8	8.5	12.8	17.1
155°	12.8	12.8	4.3	8.5	12.8
157.5°	8.5	8.5	0.0	4.3	8.5
160°	4.3	4.3	0.0	4.3	4.3
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)