

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: P384643

Luminaire Tested: **22ID-55-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384643
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-55-L835-CFD3
Description: 2X2 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

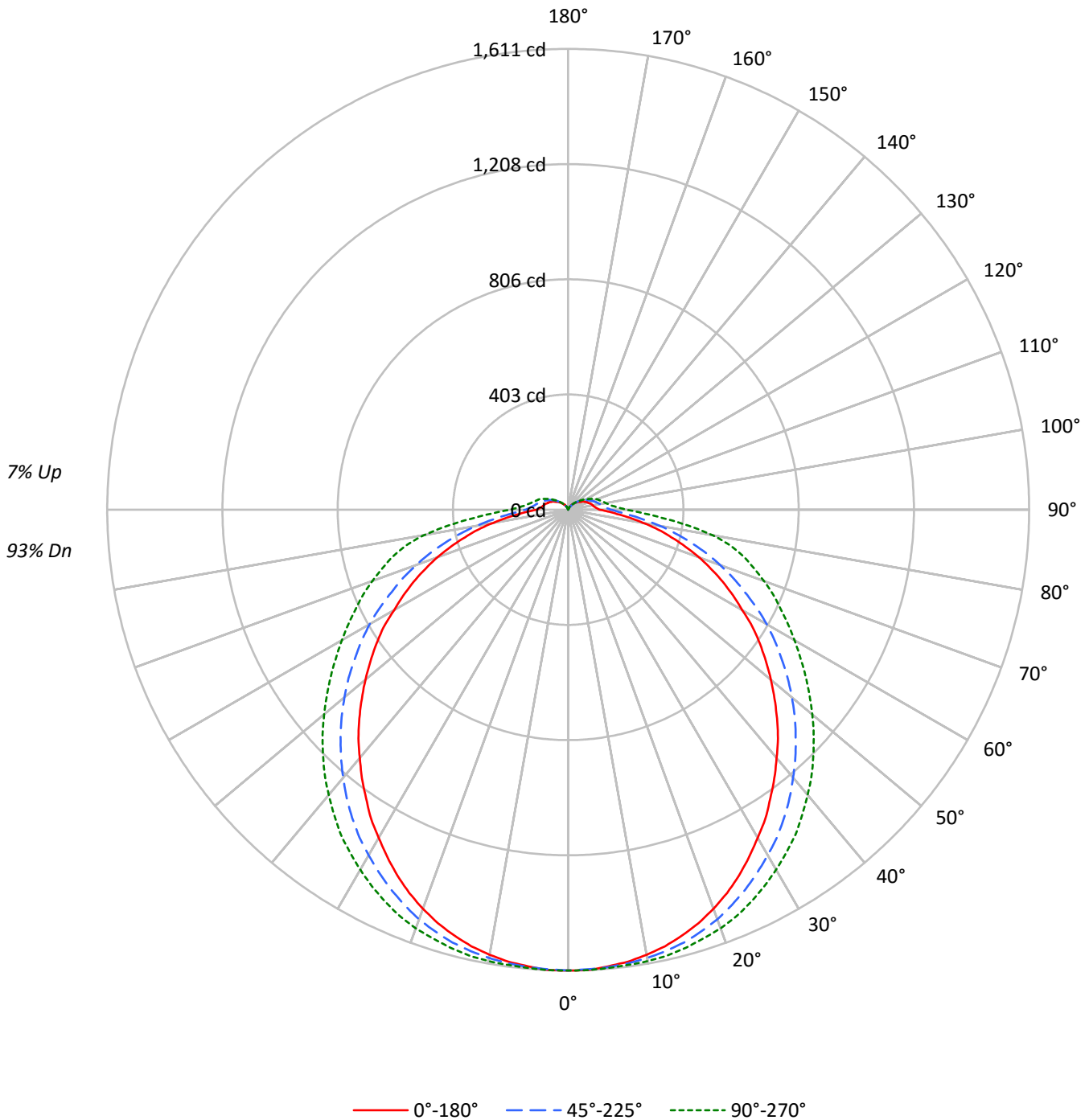
Lumens per Lamp: N/A
Luminaire Lumens: 5637.0 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.25')
CIE Type: Direct

Input Watts (W): 45.9
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: P384643
CATALOG NUMBER: 22ID-55-L835-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384643

CATALOG NUMBER: 22ID-55-L835-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°	4335	4335	4335
5°	4282	4270	4297
10°	4224	4217	4284
15°	4153	4165	4274
20°	4066	4100	4266
25°	3960	4018	4244
30°	3837	3932	4212
35°	3719	3846	4187
40°	3602	3741	4138
45°	3490	3637	4099
50°	3370	3529	4056
55°	3257	3412	4029
60°	3109	3301	4042
65°	2993	3141	4108
70°	2848	2993	4264
75°	2651	2783	4504
80°	2422	2524	4640
85°	2180	2213	4181



TEST NUMBER: P384643

CATALOG NUMBER: 22ID-55-L835-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	2.7
10°-20°	441.4	7.8
20°-30°	674.4	12.0
30°-40°	820.9	14.6
40°-50°	867.6	15.4
50°-60°	819.0	14.5
60°-70°	689.0	12.2
70°-80°	496.7	8.8
80°-90°	262.0	4.6
90°-100°	140.2	2.5
100°-110°	106.5	1.9
110°-120°	77.2	1.4
120°-130°	48.5	0.9
130°-140°	26.2	0.5
140°-150°	11.5	0.2
150°-160°	3.1	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1268.5	22.5
0°-40°	2089.3	37.1
0°-60°	3775.9	67.0
0°-90°	5223.7	92.7
90°-120°	324.0	5.7
90°-150°	410.1	7.3
90°-180°	413.0	7.3
0°-180°	5637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1611	1611	1611	1611	1611	
5°	1602	1602	1605	1605	1608	152
15°	1541	1546	1566	1577	1586	435
25°	1411	1428	1465	1498	1512	650
35°	1231	1259	1316	1366	1386	771
45°	1032	1063	1124	1186	1212	796
55°	818	855	911	978	1012	731
65°	596	630	680	765	818	589
75°	374	405	444	531	635	397
85°	172	194	216	270	329	161
90°	110	129	149	177	202	63
95°	96	110	126	143	155	76
105°	82	90	101	112	118	85
115°	65	70	79	84	90	65
125°	48	48	56	56	59	43
135°	34	31	34	34	36	25
145°	20	17	17	17	20	13
155°	8	8	3	6	8	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384643

CATALOG NUMBER: 22ID-55-L835-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.9	1610.9	1610.9	1610.9	1610.9
2.5°	1610.9	1608.0	1608.0	1608.0	1610.9
5°	1602.4	1602.4	1605.2	1605.2	1608.0
7.5°	1594.0	1594.0	1599.6	1602.4	1605.2
10°	1579.9	1582.7	1591.2	1596.8	1602.4
12.5°	1563.1	1565.9	1579.9	1591.2	1596.8
15°	1540.6	1546.2	1565.9	1577.1	1585.6
17.5°	1515.3	1523.7	1546.2	1563.1	1571.5
20°	1484.3	1495.6	1523.7	1546.2	1557.4
22.5°	1450.6	1461.9	1495.6	1523.7	1537.8
25°	1411.3	1428.1	1464.7	1498.4	1512.5
27.5°	1369.1	1388.8	1430.9	1470.3	1484.3
30°	1324.1	1346.6	1394.4	1436.6	1453.4
32.5°	1281.9	1304.4	1357.8	1402.8	1419.7
35°	1231.3	1259.4	1315.7	1366.3	1386.0
37.5°	1183.5	1211.7	1270.7	1324.1	1343.8
40°	1132.9	1161.1	1222.9	1281.9	1301.6
42.5°	1085.1	1113.3	1175.1	1237.0	1259.4
45°	1031.7	1062.7	1124.5	1186.4	1211.7
47.5°	978.3	1009.2	1073.9	1138.6	1163.9
50°	924.9	958.6	1020.5	1085.1	1113.3
52.5°	871.5	905.2	967.1	1034.5	1062.7
55°	818.1	854.6	910.8	978.3	1012.1
57.5°	764.7	801.2	857.4	927.7	961.5
60°	702.8	745.0	801.2	874.3	913.7
62.5°	649.4	685.9	742.2	818.1	865.9
65°	596.0	629.7	680.3	764.7	818.1
67.5°	539.8	576.3	624.1	702.8	775.9
70°	486.3	517.3	565.1	646.6	728.1
72.5°	430.1	461.0	506.0	590.4	680.3
75°	373.9	404.8	444.2	531.3	635.3
77.5°	323.3	348.6	385.1	469.5	581.9
80°	267.1	292.4	326.1	402.0	511.7
82.5°	216.5	239.0	267.1	334.5	421.7
85°	171.5	194.0	216.5	269.9	328.9
87.5°	137.8	154.6	177.1	216.5	255.8
90°	109.6	129.3	149.0	177.1	202.4
92.5°	101.2	118.1	134.9	157.4	174.3
95°	95.6	109.6	126.5	143.4	154.6
97.5°	90.0	104.0	118.1	134.9	143.4
100°	87.1	98.4	112.5	126.5	132.1
102.5°	84.3	92.8	106.8	118.1	126.5
105°	81.5	90.0	101.2	112.5	118.1
107.5°	75.9	84.3	95.6	106.8	112.5
110°	73.1	78.7	90.0	98.4	106.8



TEST NUMBER: P384643

CATALOG NUMBER: 22ID-55-L835-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.3	75.9	84.3	92.8	98.4
115°	64.7	70.3	78.7	84.3	90.0
117.5°	61.8	64.7	73.1	75.9	81.5
120°	56.2	59.0	67.5	70.3	73.1
122.5°	50.6	53.4	61.8	61.8	67.5
125°	47.8	47.8	56.2	56.2	59.0
127.5°	45.0	45.0	50.6	50.6	53.4
130°	39.4	39.4	45.0	45.0	45.0
132.5°	36.5	33.7	39.4	39.4	42.2
135°	33.7	30.9	33.7	33.7	36.5
137.5°	28.1	28.1	30.9	28.1	30.9
140°	25.3	22.5	25.3	25.3	28.1
142.5°	22.5	19.7	22.5	19.7	22.5
145°	19.7	16.9	16.9	16.9	19.7
147.5°	16.9	14.1	14.1	14.1	16.9
150°	14.1	11.2	11.2	11.2	14.1
152.5°	11.2	8.4	5.6	8.4	11.2
155°	8.4	8.4	2.8	5.6	8.4
157.5°	5.6	5.6	0.0	2.8	5.6
160°	2.8	2.8	0.0	2.8	2.8
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)