

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: P384583

Luminaire Tested: **14ID-50-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384583
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: 14ID-50-L835-CFD3
Description: 1X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

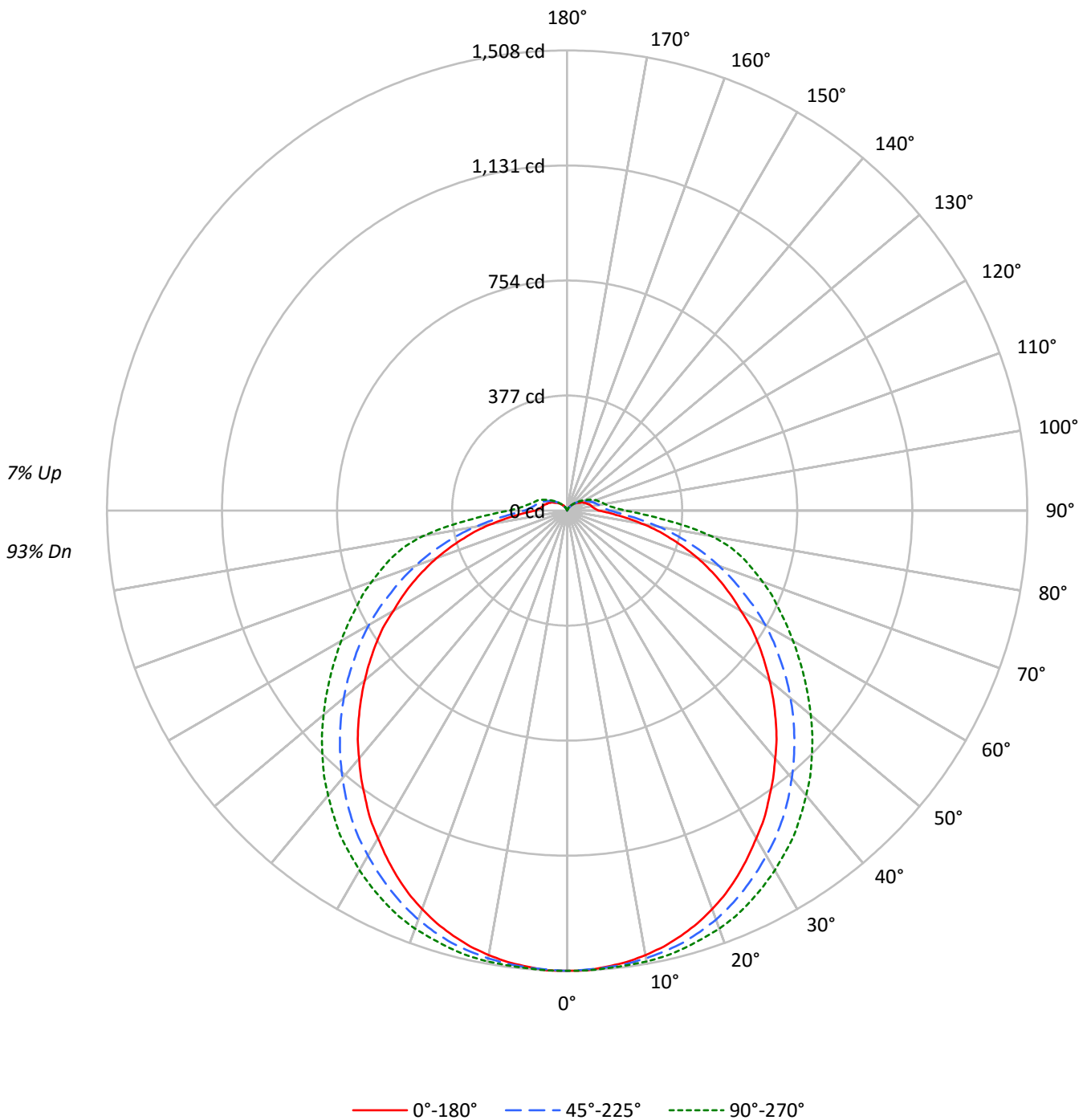
Lumens per Lamp: N/A
Luminaire Lumens: 5277.7 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 43.1
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: P384583
CATALOG NUMBER: 14ID-50-L835-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384583

CATALOG NUMBER: 14ID-50-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°	4059	4059	4059
5°	4031	3983	3980
10°	3998	3918	3926
15°	3952	3856	3876
20°	3891	3781	3828
25°	3812	3691	3766
30°	3718	3598	3695
35°	3628	3504	3628
40°	3540	3393	3539
45°	3460	3281	3454
50°	3374	3166	3362
55°	3299	3041	3276
60°	3195	2920	3213
65°	3133	2752	3175
70°	3057	2590	3180
75°	2952	2370	3199
80°	2860	2100	3070
85°	2892	1775	2465



TEST NUMBER: P384583

CATALOG NUMBER: 14ID-50-L835-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	2.7
10°-20°	413.2	7.8
20°-30°	631.4	12.0
30°-40°	768.5	14.6
40°-50°	812.3	15.4
50°-60°	766.8	14.5
60°-70°	645.1	12.2
70°-80°	465.1	8.8
80°-90°	245.3	4.6
90°-100°	131.3	2.5
100°-110°	99.7	1.9
110°-120°	72.3	1.4
120°-130°	45.4	0.9
130°-140°	24.5	0.5
140°-150°	10.7	0.2
150°-160°	2.9	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1187.6	22.5
0°-40°	1956.2	37.1
0°-60°	3535.3	67.0
0°-90°	4890.8	92.7
90°-120°	303.3	5.7
90°-150°	384.0	7.3
90°-180°	387.0	7.3
0°-180°	5277.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1500	1500	1503	1503	1506	143
15°	1442	1448	1466	1477	1484	407
25°	1321	1337	1371	1403	1416	608
35°	1153	1179	1232	1279	1298	722
45°	966	995	1053	1111	1134	746
55°	766	800	853	916	948	685
65°	558	590	637	716	766	552
75°	350	379	416	498	595	372
85°	161	182	203	253	308	150
90°	103	121	140	166	190	59
95°	90	103	118	134	145	71
105°	76	84	95	105	110	80
115°	60	66	74	79	84	61
125°	45	45	53	53	55	40
135°	32	29	32	32	34	24
145°	18	16	16	16	18	12
155°	8	8	3	5	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: P384583

CATALOG NUMBER: 14ID-50-L835-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.2	1508.2	1508.2	1508.2	1508.2
2.5°	1508.2	1505.5	1505.5	1505.5	1508.2
5°	1500.3	1500.3	1502.9	1502.9	1505.5
7.5°	1492.4	1492.4	1497.7	1500.3	1502.9
10°	1479.2	1481.9	1489.8	1495.0	1500.3
12.5°	1463.4	1466.1	1479.2	1489.8	1495.0
15°	1442.4	1447.6	1466.1	1476.6	1484.5
17.5°	1418.7	1426.6	1447.6	1463.4	1471.3
20°	1389.7	1400.3	1426.6	1447.6	1458.2
22.5°	1358.2	1368.7	1400.3	1426.6	1439.7
25°	1321.3	1337.1	1371.3	1402.9	1416.1
27.5°	1281.8	1300.2	1339.7	1376.6	1389.7
30°	1239.7	1260.8	1305.5	1345.0	1360.8
32.5°	1200.2	1221.3	1271.3	1313.4	1329.2
35°	1152.8	1179.2	1231.8	1279.2	1297.6
37.5°	1108.1	1134.4	1189.7	1239.7	1258.1
40°	1060.7	1087.0	1145.0	1200.2	1218.7
42.5°	1016.0	1042.3	1100.2	1158.1	1179.2
45°	966.0	994.9	1052.8	1110.7	1134.4
47.5°	916.0	944.9	1005.5	1066.0	1089.7
50°	866.0	897.5	955.4	1016.0	1042.3
52.5°	815.9	847.5	905.4	968.6	994.9
55°	765.9	800.2	852.8	916.0	947.5
57.5°	715.9	750.1	802.8	868.6	900.2
60°	658.0	697.5	750.1	818.6	855.4
62.5°	608.0	642.2	694.9	765.9	810.7
65°	558.0	589.6	637.0	715.9	765.9
67.5°	505.4	539.6	584.3	658.0	726.5
70°	455.3	484.3	529.0	605.4	681.7
72.5°	402.7	431.7	473.8	552.7	637.0
75°	350.1	379.0	415.9	497.5	594.8
77.5°	302.7	326.4	360.6	439.6	544.8
80°	250.0	273.7	305.3	376.4	479.0
82.5°	202.7	223.7	250.0	313.2	394.8
85°	160.6	181.6	202.7	252.7	308.0
87.5°	129.0	144.8	165.8	202.7	239.5
90°	102.7	121.1	139.5	165.8	189.5
92.5°	94.8	110.5	126.3	147.4	163.2
95°	89.5	102.7	118.4	134.2	144.8
97.5°	84.2	97.4	110.5	126.3	134.2
100°	81.6	92.1	105.3	118.4	123.7
102.5°	79.0	86.9	100.0	110.5	118.4
105°	76.3	84.2	94.8	105.3	110.5
107.5°	71.1	79.0	89.5	100.0	105.3
110°	68.4	73.7	84.2	92.1	100.0



TEST NUMBER: P384583

CATALOG NUMBER: 14ID-50-L835-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.8	71.1	79.0	86.9	92.1
115°	60.5	65.8	73.7	79.0	84.2
117.5°	57.9	60.5	68.4	71.1	76.3
120°	52.6	55.3	63.2	65.8	68.4
122.5°	47.4	50.0	57.9	57.9	63.2
125°	44.7	44.7	52.6	52.6	55.3
127.5°	42.1	42.1	47.4	47.4	50.0
130°	36.8	36.8	42.1	42.1	42.1
132.5°	34.2	31.6	36.8	36.8	39.5
135°	31.6	29.0	31.6	31.6	34.2
137.5°	26.3	26.3	29.0	26.3	29.0
140°	23.7	21.1	23.7	23.7	26.3
142.5°	21.1	18.4	21.1	18.4	21.1
145°	18.4	15.8	15.8	15.8	18.4
147.5°	15.8	13.2	13.2	13.2	15.8
150°	13.2	10.5	10.5	10.5	13.2
152.5°	10.5	7.9	5.3	7.9	10.5
155°	7.9	7.9	2.6	5.3	7.9
157.5°	5.3	5.3	0.0	2.6	5.3
160°	2.6	2.6	0.0	2.6	2.6
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)