

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: P384719

Luminaire Tested: **24ID-85-L835-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384719
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: 24ID-85-L835-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

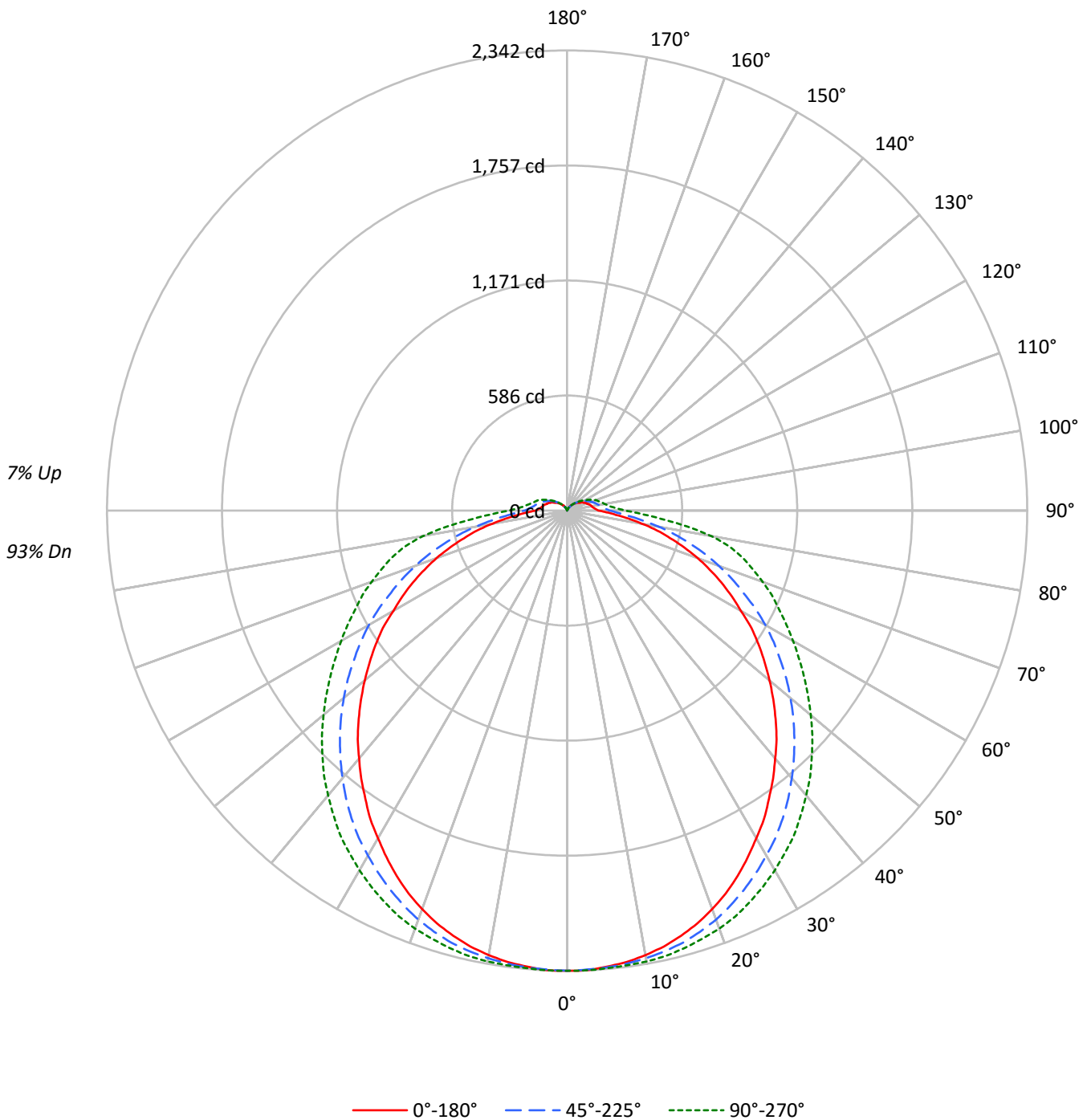
Lumens per Lamp: N/A
Luminaire Lumens: 8196.2 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 82
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: P384719
CATALOG NUMBER: 24ID-85-L835-CFD3

Luminous Intensity Polar Plot





TEST NUMBER: P384719

CATALOG NUMBER: 24ID-85-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°	3151	3151	3151
5°	3130	3116	3124
10°	3104	3089	3115
15°	3069	3063	3107
20°	3021	3026	3101
25°	2960	2977	3085
30°	2887	2926	3062
35°	2818	2875	3044
40°	2749	2810	3008
45°	2686	2747	2980
50°	2620	2682	2949
55°	2562	2612	2929
60°	2481	2550	2939
65°	2433	2452	2986
70°	2374	2369	3100
75°	2291	2246	3275
80°	2221	2097	3373
85°	2245	1931	3040



TEST NUMBER: P384719

CATALOG NUMBER: 24ID-85-L835-CFD3

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	2.7
10°-20°	641.8	7.8
20°-30°	980.5	12.0
30°-40°	1193.6	14.6
40°-50°	1261.5	15.4
50°-60°	1190.8	14.5
60°-70°	1001.8	12.2
70°-80°	722.3	8.8
80°-90°	380.9	4.6
90°-100°	203.9	2.5
100°-110°	154.9	1.9
110°-120°	112.3	1.4
120°-130°	70.5	0.9
130°-140°	38.1	0.5
140°-150°	16.6	0.2
150°-160°	4.5	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1844.4	22.5
0°-40°	3037.9	37.1
0°-60°	5490.2	67.0
0°-90°	7595.3	92.7
90°-120°	471.1	5.7
90°-150°	596.3	7.3
90°-180°	601.0	7.3
0°-180°	8196.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2330	2330	2334	2334	2338	221
15°	2240	2248	2277	2293	2305	632
25°	2052	2076	2130	2179	2199	945
35°	1790	1831	1913	1987	2015	1121
45°	1500	1545	1635	1725	1762	1158
55°	1190	1243	1324	1422	1472	1063
65°	867	916	989	1112	1190	857
75°	544	589	646	773	924	577
85°	249	282	315	392	478	234
90°	159	188	217	258	294	91
95°	139	159	184	208	225	111
105°	118	131	147	164	172	124
115°	94	102	114	123	131	94
125°	70	70	82	82	86	63
135°	49	45	49	49	53	37
145°	29	24	24	24	29	18
155°	12	12	4	8	12	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P384719

CATALOG NUMBER: 24ID-85-L835-CFD3

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2342.2	2342.2	2342.2	2342.2	2342.2
2.5°	2342.2	2338.1	2338.1	2338.1	2342.2
5°	2329.9	2329.9	2334.0	2334.0	2338.1
7.5°	2317.7	2317.7	2325.8	2329.9	2334.0
10°	2297.2	2301.3	2313.6	2321.7	2329.9
12.5°	2272.7	2276.8	2297.2	2313.6	2321.7
15°	2240.0	2248.2	2276.8	2293.1	2305.4
17.5°	2203.2	2215.5	2248.2	2272.7	2285.0
20°	2158.2	2174.6	2215.5	2248.2	2264.5
22.5°	2109.2	2125.5	2174.6	2215.5	2235.9
25°	2052.0	2076.5	2129.6	2178.7	2199.1
27.5°	1990.7	2019.3	2080.6	2137.8	2158.2
30°	1925.3	1958.0	2027.4	2088.8	2113.3
32.5°	1863.9	1896.6	1974.3	2039.7	2064.2
35°	1790.4	1831.2	1913.0	1986.6	2015.2
37.5°	1720.9	1761.7	1847.6	1925.3	1953.9
40°	1647.3	1688.2	1778.1	1863.9	1892.5
42.5°	1577.8	1618.7	1708.6	1798.5	1831.2
45°	1500.1	1545.1	1635.0	1725.0	1761.7
47.5°	1422.5	1467.4	1561.5	1655.5	1692.3
50°	1344.8	1393.9	1483.8	1577.8	1618.7
52.5°	1267.1	1316.2	1406.1	1504.2	1545.1
55°	1189.5	1242.6	1324.4	1422.5	1471.5
57.5°	1111.8	1165.0	1246.7	1348.9	1398.0
60°	1021.9	1083.2	1165.0	1271.2	1328.5
62.5°	944.2	997.4	1079.1	1189.5	1259.0
65°	866.6	915.6	989.2	1111.8	1189.5
67.5°	784.8	838.0	907.4	1021.9	1128.2
70°	707.2	752.1	821.6	940.1	1058.7
72.5°	625.4	670.4	735.8	858.4	989.2
75°	543.6	588.6	645.8	772.6	923.8
77.5°	470.1	506.9	560.0	682.6	846.1
80°	388.3	425.1	474.2	584.5	743.9
82.5°	314.7	347.4	388.3	486.4	613.1
85°	249.3	282.0	314.7	392.4	478.2
87.5°	200.3	224.8	257.5	314.7	372.0
90°	159.4	188.0	216.6	257.5	294.3
92.5°	147.2	171.7	196.2	228.9	253.4
95°	139.0	159.4	183.9	208.5	224.8
97.5°	130.8	151.2	171.7	196.2	208.5
100°	126.7	143.1	163.5	183.9	192.1
102.5°	122.6	134.9	155.3	171.7	183.9
105°	118.5	130.8	147.2	163.5	171.7
107.5°	110.4	122.6	139.0	155.3	163.5
110°	106.3	114.5	130.8	143.1	155.3



TEST NUMBER: P384719

CATALOG NUMBER: 24ID-85-L835-CFD3

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.2	110.4	122.6	134.9	143.1
115°	94.0	102.2	114.5	122.6	130.8
117.5°	89.9	94.0	106.3	110.4	118.5
120°	81.8	85.8	98.1	102.2	106.3
122.5°	73.6	77.7	89.9	89.9	98.1
125°	69.5	69.5	81.8	81.8	85.8
127.5°	65.4	65.4	73.6	73.6	77.7
130°	57.2	57.2	65.4	65.4	65.4
132.5°	53.1	49.1	57.2	57.2	61.3
135°	49.1	45.0	49.1	49.1	53.1
137.5°	40.9	40.9	45.0	40.9	45.0
140°	36.8	32.7	36.8	36.8	40.9
142.5°	32.7	28.6	32.7	28.6	32.7
145°	28.6	24.5	24.5	24.5	28.6
147.5°	24.5	20.4	20.4	20.4	24.5
150°	20.4	16.4	16.4	16.4	20.4
152.5°	16.4	12.3	8.2	12.3	16.4
155°	12.3	12.3	4.1	8.2	12.3
157.5°	8.2	8.2	0.0	4.1	8.2
160°	4.1	4.1	0.0	4.1	4.1
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)