

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: P384167

Luminaire Tested: **22ID-90-L835-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-90-L835-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

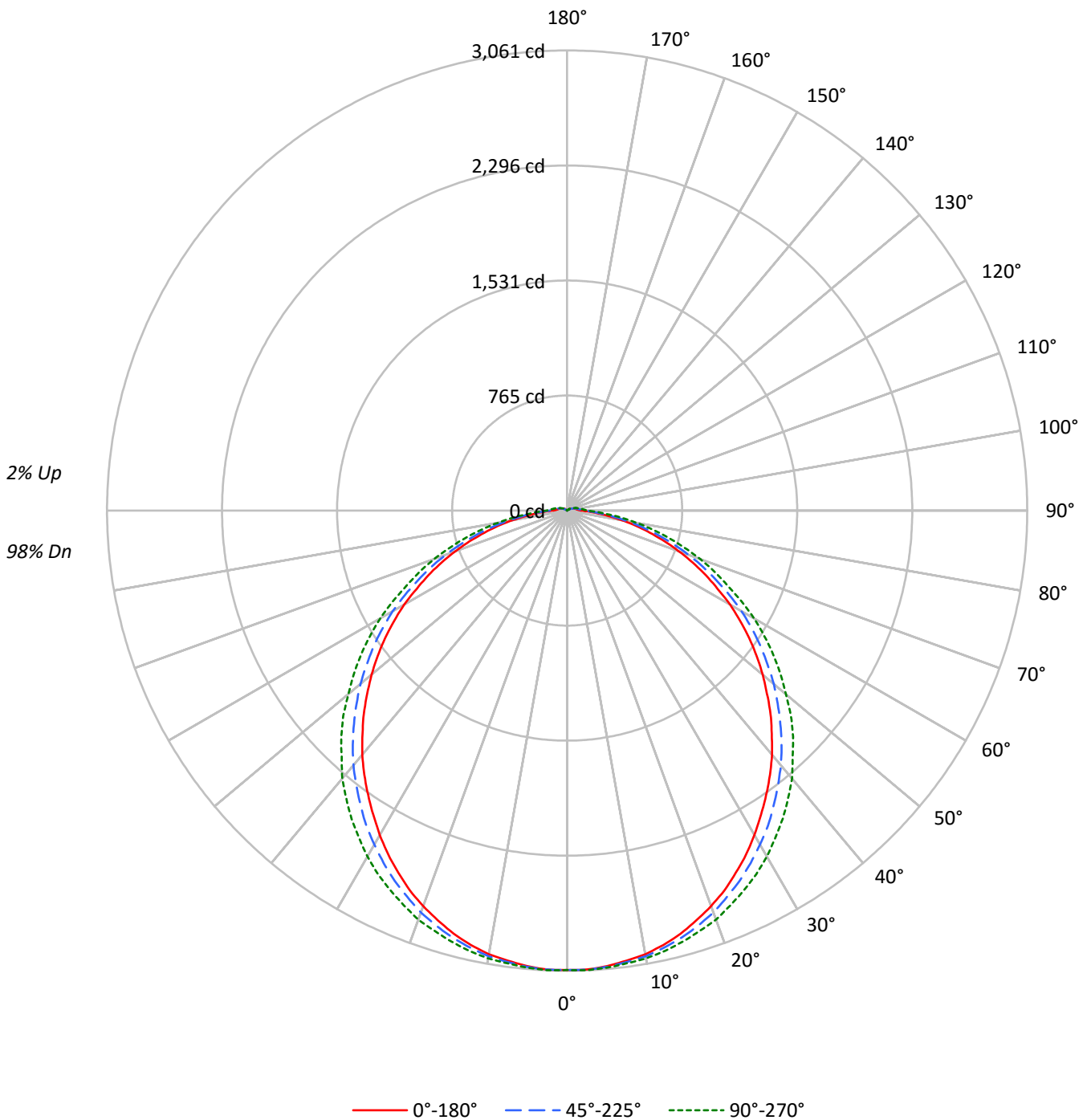
Lumens per Lamp: N/A
Luminaire Lumens: 9051.6 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 84.1
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: P384167
CATALOG NUMBER: 22ID-90-L835-CFD1

Luminous Intensity Polar Plot





TEST NUMBER: P384167

CATALOG NUMBER: 22ID-90-L835-CFD1

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8224	8224	8224
5°	8189	8189	8213
10°	8128	8141	8203
15°	8029	8067	8180
20°	7897	7976	8168
25°	7739	7851	8113
30°	7561	7709	8062
35°	7368	7557	7983
40°	7196	7404	7897
45°	6991	7207	7762
50°	6772	7019	7577
55°	6543	6792	7417
60°	6289	6544	7210
65°	5955	6175	6867
70°	5572	5811	6641
75°	5120	5319	6276
80°	4602	4744	5868
85°	4127	4233	5568



TEST NUMBER: P384167

CATALOG NUMBER: 22ID-90-L835-CFD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	3.2
10°-20°	829.7	9.2
20°-30°	1252.7	13.8
30°-40°	1501.0	16.6
40°-50°	1551.8	17.1
50°-60°	1405.3	15.5
60°-70°	1087.4	12.0
70°-80°	668.0	7.4
80°-90°	265.4	2.9
90°-100°	96.8	1.1
100°-110°	59.5	0.7
110°-120°	30.6	0.3
120°-130°	13.1	0.1
130°-140°	0.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2371.9	26.2
0°-40°	3872.8	42.8
0°-60°	6829.9	75.5
0°-90°	8850.7	97.8
90°-120°	186.9	2.1
90°-150°	200.9	2.2
90°-180°	201.0	2.2
0°-180°	9051.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3056	3056	3056	3056	3056	
5°	3042	3042	3047	3047	3052	289
15°	2914	2919	2942	2960	2969	821
25°	2657	2675	2717	2762	2786	1224
35°	2308	2336	2395	2460	2501	1445
45°	1914	1936	2005	2088	2125	1475
55°	1478	1510	1569	1638	1675	1320
65°	1019	1042	1092	1147	1175	1008
75°	569	597	624	665	698	606
85°	197	211	229	252	266	197
90°	92	106	115	128	138	54
95°	69	78	87	96	106	55
105°	50	50	55	60	64	53
115°	32	28	28	32	37	33
125°	18	14	9	14	18	17
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
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



TEST NUMBER: P384167

CATALOG NUMBER: 22ID-90-L835-CFD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3056.2	3056.2	3056.2	3056.2	3056.2
2.5°	3056.2	3051.6	3056.2	3056.2	3060.8
5°	3042.5	3042.5	3047.1	3047.1	3051.6
7.5°	3019.5	3019.5	3028.7	3033.3	3037.9
10°	2996.6	2996.6	3010.3	3014.9	3024.1
12.5°	2959.9	2964.5	2978.2	2992.0	3001.2
15°	2914.0	2918.6	2941.5	2959.9	2969.0
17.5°	2858.9	2868.1	2895.6	2923.2	2932.3
20°	2799.3	2813.0	2845.1	2877.3	2895.6
22.5°	2735.0	2744.2	2780.9	2822.2	2840.6
25°	2657.0	2675.4	2716.7	2762.5	2785.5
27.5°	2579.0	2597.3	2643.2	2698.3	2725.8
30°	2491.8	2510.2	2565.2	2624.9	2657.0
32.5°	2400.0	2423.0	2487.2	2546.9	2579.0
35°	2308.2	2335.8	2395.4	2459.7	2501.0
37.5°	2216.5	2239.4	2303.6	2372.5	2413.8
40°	2120.1	2143.0	2211.9	2280.7	2326.6
42.5°	2014.5	2042.1	2110.9	2184.3	2221.0
45°	1913.6	1936.5	2005.4	2088.0	2124.7
47.5°	1803.5	1835.6	1899.8	1977.8	2019.1
50°	1697.9	1725.4	1794.3	1867.7	1899.8
52.5°	1587.8	1615.3	1679.6	1753.0	1789.7
55°	1477.6	1509.8	1569.4	1638.3	1675.0
57.5°	1362.9	1395.0	1454.7	1514.4	1555.7
60°	1252.8	1284.9	1340.0	1399.6	1436.3
62.5°	1128.9	1156.4	1216.1	1280.3	1307.8
65°	1018.7	1041.7	1092.2	1147.2	1174.8
67.5°	904.0	931.6	977.4	1027.9	1060.0
70°	789.3	821.4	858.1	904.0	940.7
72.5°	679.2	706.7	738.8	784.7	816.8
75°	569.0	596.6	624.1	665.4	697.5
77.5°	472.7	486.4	514.0	550.7	582.8
80°	367.1	385.5	408.4	445.1	468.1
82.5°	275.3	293.7	312.0	339.6	362.5
85°	197.3	211.1	229.4	252.4	266.2
87.5°	133.1	146.8	160.6	179.0	192.7
90°	91.8	105.5	114.7	128.5	137.7
92.5°	78.0	87.2	96.4	105.5	114.7
95°	68.8	78.0	87.2	96.4	105.5
97.5°	64.2	68.8	78.0	87.2	91.8
100°	59.7	64.2	68.8	78.0	82.6
102.5°	55.1	55.1	64.2	68.8	73.4
105°	50.5	50.5	55.1	59.7	64.2
107.5°	45.9	45.9	50.5	50.5	59.7
110°	41.3	36.7	41.3	41.3	50.5



TEST NUMBER: P384167

CATALOG NUMBER: 22ID-90-L835-CFD1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	36.7	32.1	36.7	36.7	41.3
115°	32.1	27.5	27.5	32.1	36.7
117.5°	27.5	22.9	22.9	22.9	32.1
120°	27.5	22.9	18.4	18.4	27.5
122.5°	22.9	18.4	13.8	18.4	22.9
125°	18.4	13.8	9.2	13.8	18.4
127.5°	13.8	13.8	4.6	9.2	13.8
130°	13.8	9.2	4.6	9.2	9.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)