

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: P384383

Luminaire Tested: **24ID-85-L835-CFD2**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-85-L835-CFD2  
Description: 2X4 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

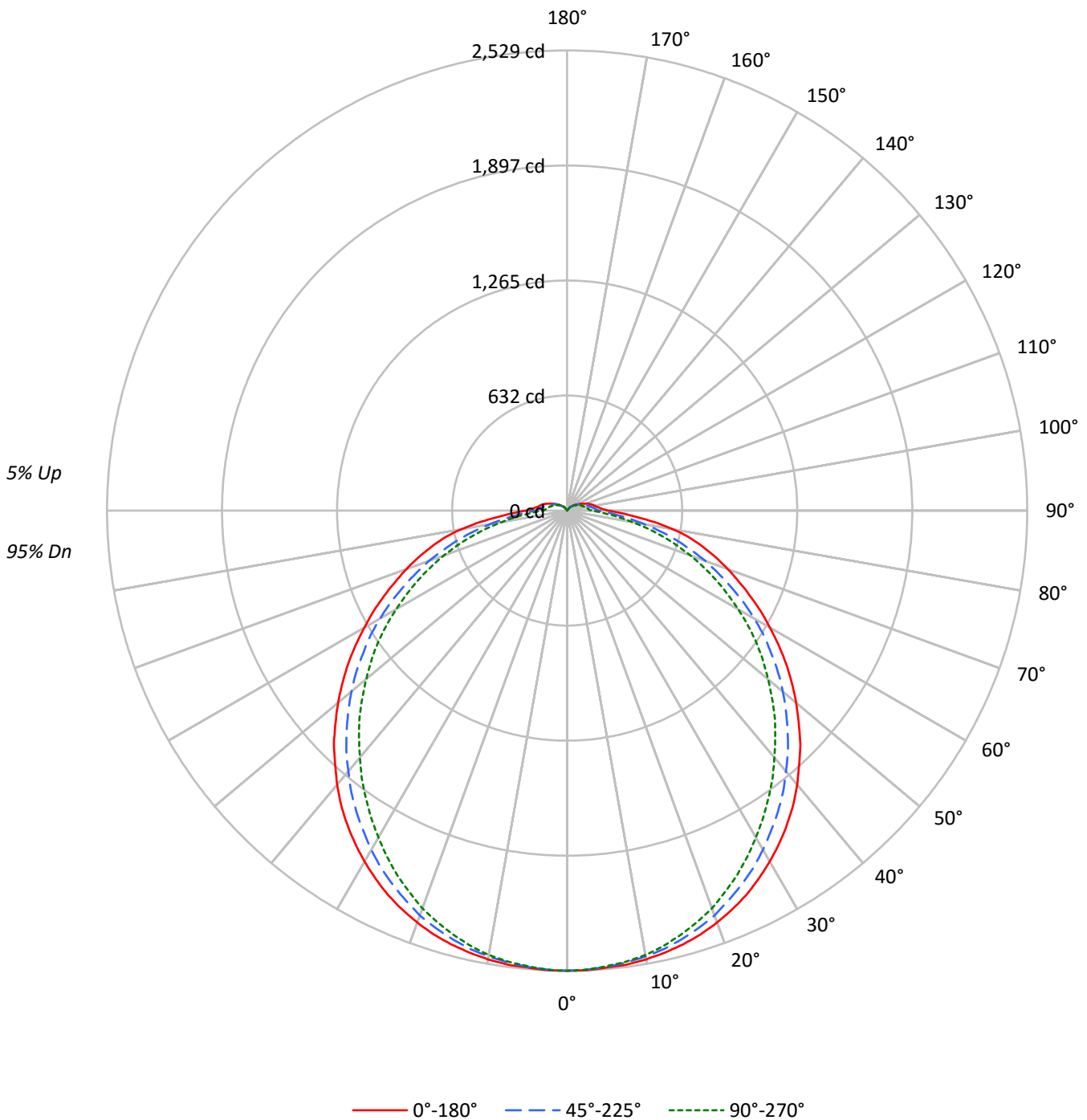
Lumens per Lamp: N/A  
Luminaire Lumens: 8203.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



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### Luminous Intensity Polar Plot





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**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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	101	96	92	103	98	94	90	93	90	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	87	76	68	61	84	74	67	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	35	30	42	35	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	39	31	26	37	31	26	36	30	25	24
10	51	38	30	24	50	37	29	24	36	29	24	34	28	23	33	27	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3403	3403	3403
5°	3392	3373	3369
10°	3397	3347	3339
15°	3398	3318	3288
20°	3398	3285	3233
25°	3394	3234	3159
30°	3379	3182	3074
35°	3363	3125	2994
40°	3337	3059	2908
45°	3312	2996	2835
50°	3277	2932	2743
55°	3254	2854	2664
60°	3231	2772	2550
65°	3242	2659	2437
70°	3317	2555	2305
75°	3483	2411	2134
80°	3710	2222	1917
85°	3895	2098	1767



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.4	2.9
10°-20°	688.3	8.4
20°-30°	1045.5	12.7
30°-40°	1262.8	15.4
40°-50°	1321.7	16.1
50°-60°	1226.4	15.0
60°-70°	993.4	12.1
70°-80°	670.4	8.2
80°-90°	323.9	3.9
90°-100°	162.9	2.0
100°-110°	118.4	1.4
110°-120°	79.2	1.0
120°-130°	45.9	0.6
130°-140°	23.1	0.3
140°-150°	1.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1973.1	24.1
0°-40°	3235.9	39.4
0°-60°	5784.0	70.5
0°-90°	7771.7	94.7
90°-120°	360.5	4.4
90°-150°	431.3	5.3
90°-180°	431.0	5.3
0°-180°	8203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2529	2529	2529	2529	2529	
5°	2521	2517	2517	2513	2513	240
15°	2467	2455	2438	2422	2413	697
25°	2330	2310	2268	2227	2210	1074
35°	2107	2078	2020	1958	1929	1318
45°	1813	1780	1714	1643	1614	1397
55°	1470	1436	1370	1304	1271	1313
65°	1109	1068	993	940	902	1101
75°	774	695	617	571	538	815
85°	372	323	273	248	224	352
90°	224	203	174	157	132	128
95°	178	166	149	132	116	140
105°	132	124	112	99	91	141
115°	91	83	83	70	70	91
125°	58	50	54	46	50	51
135°	33	29	29	29	33	26
145°	0	0	0	0	0	2
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2529.1	2529.1	2529.1	2529.1	2529.1
2.5°	2529.1	2525.0	2525.0	2525.0	2525.0
5°	2520.9	2516.7	2516.7	2512.6	2512.6
7.5°	2516.7	2508.4	2504.3	2500.2	2500.2
10°	2504.3	2496.0	2487.7	2479.5	2479.5
12.5°	2487.7	2479.5	2467.0	2450.5	2450.5
15°	2467.0	2454.6	2438.1	2421.5	2413.2
17.5°	2442.2	2429.8	2405.0	2380.1	2371.8
20°	2409.1	2392.5	2367.7	2334.6	2326.3
22.5°	2371.8	2355.3	2318.0	2284.9	2268.4
25°	2330.5	2309.8	2268.4	2227.0	2210.4
27.5°	2280.8	2260.1	2214.5	2164.9	2144.2
30°	2227.0	2202.1	2152.5	2098.6	2073.8
32.5°	2169.0	2140.0	2086.2	2028.3	2003.4
35°	2106.9	2078.0	2020.0	1957.9	1928.9
37.5°	2040.7	2011.7	1949.6	1883.4	1854.4
40°	1966.2	1937.2	1871.0	1804.8	1771.6
42.5°	1887.5	1862.7	1796.5	1726.1	1693.0
45°	1813.0	1779.9	1713.7	1643.3	1614.3
47.5°	1726.1	1701.3	1630.9	1560.5	1527.4
50°	1643.3	1614.3	1548.1	1477.7	1440.5
52.5°	1556.4	1531.6	1461.2	1390.8	1357.7
55°	1469.5	1436.4	1370.1	1303.9	1270.8
57.5°	1378.4	1349.4	1283.2	1221.1	1179.7
60°	1287.3	1258.4	1188.0	1130.0	1084.5
62.5°	1200.4	1167.3	1092.8	1030.7	993.4
65°	1109.3	1068.0	993.4	939.6	902.4
67.5°	1022.4	972.7	898.2	848.6	811.3
70°	939.6	881.7	807.2	757.5	720.2
72.5°	856.8	786.5	707.8	662.3	629.2
75°	774.1	695.4	616.8	571.2	538.1
77.5°	691.3	600.2	521.6	484.3	451.2
80°	591.9	505.0	430.5	397.4	364.3
82.5°	480.2	409.8	347.7	314.6	289.8
85°	372.5	322.9	273.2	248.4	223.5
87.5°	289.8	252.5	215.2	194.5	173.9
90°	223.5	202.8	173.9	157.3	132.5
92.5°	194.5	178.0	157.3	140.7	120.0
95°	178.0	165.6	149.0	132.5	115.9
97.5°	161.4	153.2	136.6	124.2	107.6
100°	153.2	140.7	128.3	115.9	103.5
102.5°	144.9	132.5	120.0	107.6	99.3
105°	132.5	124.2	111.8	99.3	91.1
107.5°	124.2	111.8	103.5	91.1	86.9
110°	111.8	103.5	95.2	86.9	82.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	99.3	95.2	86.9	78.6	74.5
115°	91.1	82.8	82.8	70.4	70.4
117.5°	82.8	74.5	74.5	66.2	66.2
120°	70.4	66.2	66.2	58.0	58.0
122.5°	62.1	58.0	58.0	53.8	53.8
125°	58.0	49.7	53.8	45.5	49.7
127.5°	49.7	45.5	45.5	41.4	45.5
130°	41.4	37.3	37.3	37.3	41.4
132.5°	37.3	33.1	33.1	33.1	37.3
135°	33.1	29.0	29.0	29.0	33.1
137.5°	29.0	24.8	20.7	24.8	29.0
140°	24.8	20.7	16.6	20.7	24.8
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)