

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: P384715

Luminaire Tested: **24ID-80-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384715  
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-80-L835-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

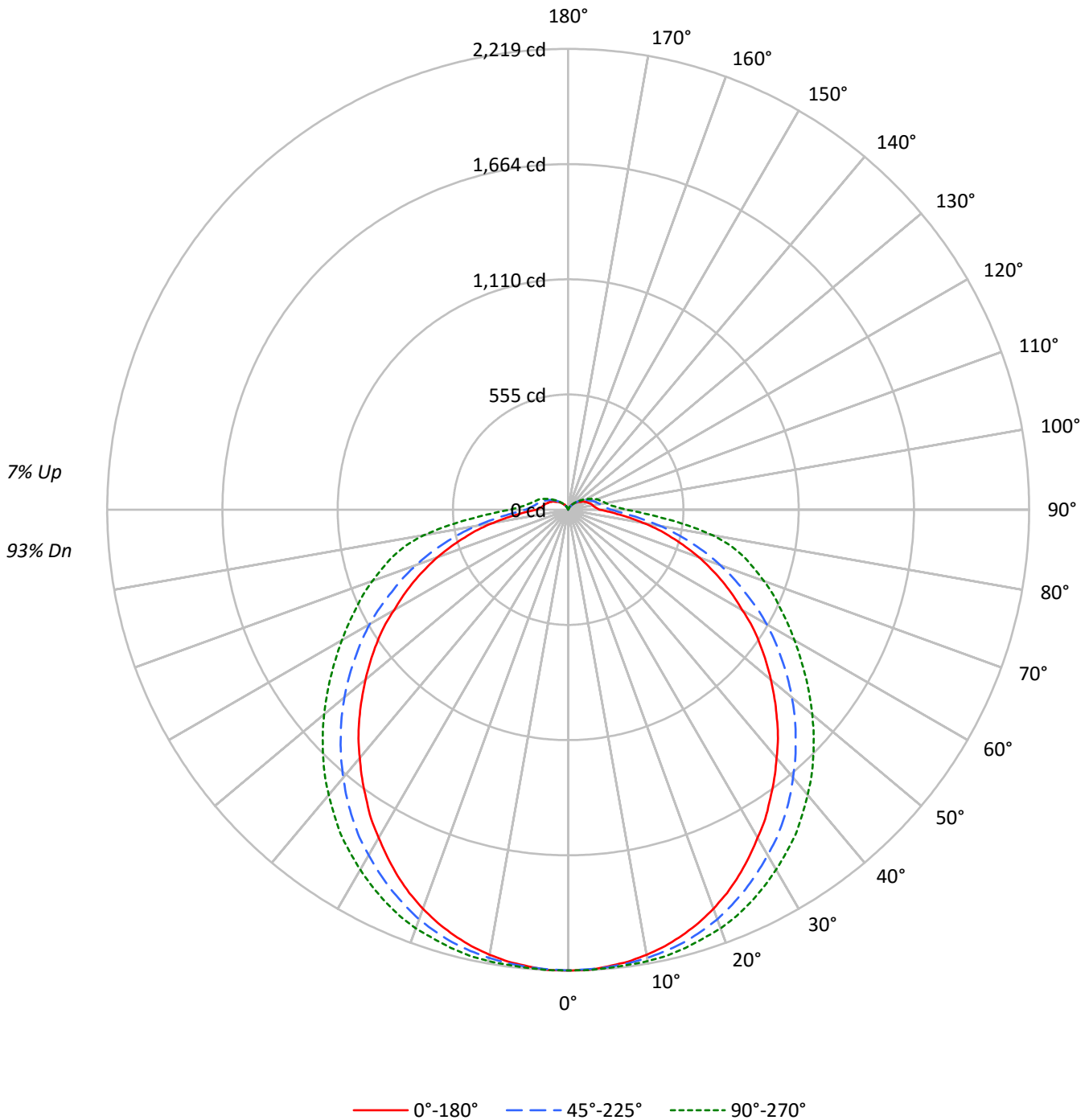
Lumens per Lamp: N/A  
Luminaire Lumens: 7763.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 77  
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	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°	2985	2985	2985
5°	2965	2952	2959
10°	2941	2926	2950
15°	2907	2901	2943
20°	2862	2867	2938
25°	2804	2820	2922
30°	2735	2772	2901
35°	2669	2724	2883
40°	2604	2662	2850
45°	2545	2602	2823
50°	2482	2541	2793
55°	2426	2474	2774
60°	2350	2415	2784
65°	2305	2323	2829
70°	2249	2244	2936
75°	2171	2128	3102
80°	2104	1987	3195
85°	2127	1830	2879



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.4	2.7
10°-20°	607.9	7.8
20°-30°	928.8	12.0
30°-40°	1130.6	14.6
40°-50°	1195.0	15.4
50°-60°	1128.0	14.5
60°-70°	949.0	12.2
70°-80°	684.2	8.8
80°-90°	360.8	4.6
90°-100°	193.1	2.5
100°-110°	146.7	1.9
110°-120°	106.4	1.4
120°-130°	66.8	0.9
130°-140°	36.1	0.5
140°-150°	15.8	0.2
150°-160°	4.2	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1747.1	22.5
0°-40°	2877.7	37.1
0°-60°	5200.6	67.0
0°-90°	7194.7	92.7
90°-120°	446.2	5.7
90°-150°	564.9	7.3
90°-180°	569.0	7.3
0°-180°	7763.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2219	2219	2219	2219	2219	
5°	2207	2207	2211	2211	2215	210
15°	2122	2130	2157	2172	2184	598
25°	1944	1967	2017	2064	2083	895
35°	1696	1735	1812	1882	1909	1062
45°	1421	1464	1549	1634	1669	1097
55°	1127	1177	1254	1348	1394	1007
65°	821	867	937	1053	1127	811
75°	515	558	612	732	875	547
85°	236	267	298	372	453	221
90°	151	178	205	244	279	86
95°	132	151	174	198	213	105
105°	112	124	139	155	163	117
115°	89	97	108	116	124	90
125°	66	66	77	77	81	59
135°	46	43	46	46	50	35
145°	27	23	23	23	27	17
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2218.6	2218.6	2218.6	2218.6	2218.6
2.5°	2218.6	2214.8	2214.8	2214.8	2218.6
5°	2207.0	2207.0	2210.9	2210.9	2214.8
7.5°	2195.4	2195.4	2203.2	2207.0	2210.9
10°	2176.1	2179.9	2191.5	2199.3	2207.0
12.5°	2152.8	2156.7	2176.1	2191.5	2199.3
15°	2121.8	2129.6	2156.7	2172.2	2183.8
17.5°	2087.0	2098.6	2129.6	2152.8	2164.4
20°	2044.4	2059.9	2098.6	2129.6	2145.1
22.5°	1997.9	2013.4	2059.9	2098.6	2118.0
25°	1943.7	1967.0	2017.3	2063.8	2083.1
27.5°	1885.7	1912.8	1970.8	2025.0	2044.4
30°	1823.7	1854.7	1920.5	1978.6	2001.8
32.5°	1765.6	1796.6	1870.2	1932.1	1955.4
35°	1695.9	1734.6	1812.1	1881.8	1908.9
37.5°	1630.1	1668.8	1750.1	1823.7	1850.8
40°	1560.4	1599.1	1684.3	1765.6	1792.7
42.5°	1494.6	1533.3	1618.5	1703.7	1734.6
45°	1421.0	1463.6	1548.8	1634.0	1668.8
47.5°	1347.5	1390.0	1479.1	1568.2	1603.0
50°	1273.9	1320.3	1405.5	1494.6	1533.3
52.5°	1200.3	1246.8	1332.0	1424.9	1463.6
55°	1126.7	1177.1	1254.5	1347.5	1393.9
57.5°	1053.2	1103.5	1181.0	1277.8	1324.2
60°	968.0	1026.1	1103.5	1204.2	1258.4
62.5°	894.4	944.8	1022.2	1126.7	1192.6
65°	820.9	867.3	937.0	1053.2	1126.7
67.5°	743.4	793.8	859.6	968.0	1068.7
70°	669.9	712.4	778.3	890.6	1002.8
72.5°	592.4	635.0	697.0	813.1	937.0
75°	515.0	557.6	611.8	731.8	875.1
77.5°	445.3	480.1	530.5	646.6	801.5
80°	367.8	402.7	449.2	553.7	704.7
82.5°	298.1	329.1	367.8	460.8	580.8
85°	236.2	267.2	298.1	371.7	453.0
87.5°	189.7	213.0	243.9	298.1	352.4
90°	151.0	178.1	205.2	243.9	278.8
92.5°	139.4	162.6	185.9	216.8	240.1
95°	131.6	151.0	174.2	197.5	213.0
97.5°	123.9	143.3	162.6	185.9	197.5
100°	120.0	135.5	154.9	174.2	182.0
102.5°	116.2	127.8	147.1	162.6	174.2
105°	112.3	123.9	139.4	154.9	162.6
107.5°	104.5	116.2	131.6	147.1	154.9
110°	100.7	108.4	123.9	135.5	147.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	96.8	104.5	116.2	127.8	135.5
115°	89.1	96.8	108.4	116.2	123.9
117.5°	85.2	89.1	100.7	104.5	112.3
120°	77.4	81.3	92.9	96.8	100.7
122.5°	69.7	73.6	85.2	85.2	92.9
125°	65.8	65.8	77.4	77.4	81.3
127.5°	62.0	62.0	69.7	69.7	73.6
130°	54.2	54.2	62.0	62.0	62.0
132.5°	50.3	46.5	54.2	54.2	58.1
135°	46.5	42.6	46.5	46.5	50.3
137.5°	38.7	38.7	42.6	38.7	42.6
140°	34.8	31.0	34.8	34.8	38.7
142.5°	31.0	27.1	31.0	27.1	31.0
145°	27.1	23.2	23.2	23.2	27.1
147.5°	23.2	19.4	19.4	19.4	23.2
150°	19.4	15.5	15.5	15.5	19.4
152.5°	15.5	11.6	7.7	11.6	15.5
155°	11.6	11.6	3.9	7.7	11.6
157.5°	7.7	7.7	0.0	3.9	7.7
160°	3.9	3.9	0.0	3.9	3.9
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

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