

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: P384707

Luminaire Tested: **24ID-70-L835-CFD3**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384707  
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-70-L835-CFD3  
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

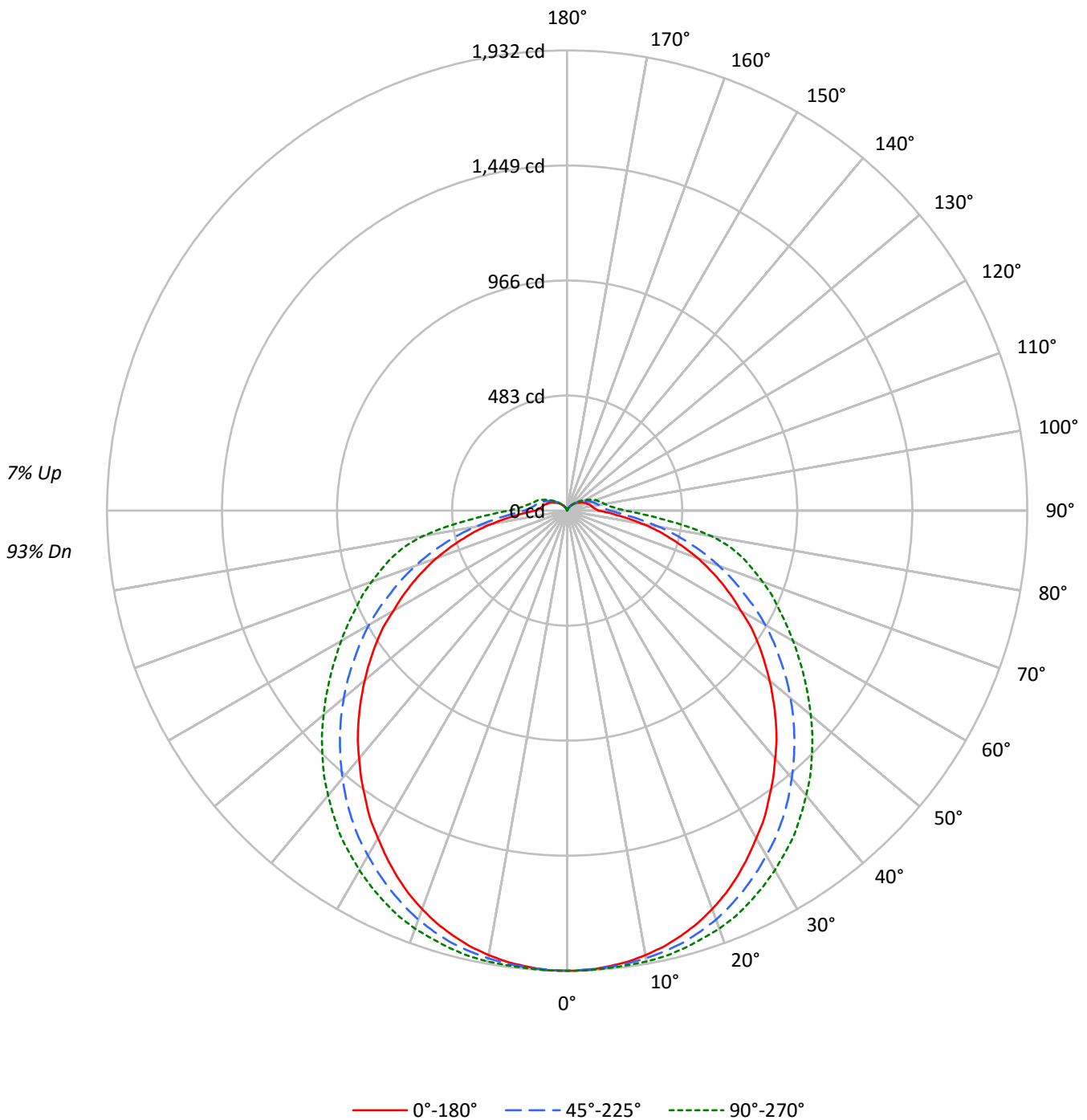
Lumens per Lamp: N/A  
Luminaire Lumens: 6761.2 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')  
CIE Type: Direct

Input Watts (W): 65.6  
Input Voltage (V): NR  
Input Current (Ain): 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°	2600	2600	2600
5°	2582	2571	2577
10°	2561	2548	2569
15°	2532	2526	2563
20°	2493	2496	2558
25°	2442	2456	2545
30°	2382	2414	2526
35°	2324	2372	2511
40°	2268	2318	2482
45°	2216	2266	2458
50°	2161	2213	2433
55°	2113	2155	2416
60°	2047	2103	2424
65°	2007	2023	2463
70°	1958	1954	2557
75°	1891	1853	2702
80°	1832	1730	2783
85°	1852	1593	2508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	2.7
10°-20°	529.4	7.8
20°-30°	808.8	12.0
30°-40°	984.6	14.6
40°-50°	1040.7	15.4
50°-60°	982.3	14.5
60°-70°	826.4	12.2
70°-80°	595.8	8.8
80°-90°	314.2	4.6
90°-100°	168.2	2.5
100°-110°	127.7	1.9
110°-120°	92.7	1.4
120°-130°	58.2	0.9
130°-140°	31.4	0.5
140°-150°	13.7	0.2
150°-160°	3.7	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1521.5	22.5
0°-40°	2506.0	37.1
0°-60°	4529.0	67.0
0°-90°	6265.5	92.7
90°-120°	388.6	5.7
90°-150°	491.9	7.3
90°-180°	496.0	7.3
0°-180°	6761.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1932	1932	1932	1932	1932	
5°	1922	1922	1925	1925	1929	183
15°	1848	1855	1878	1892	1902	521
25°	1693	1713	1757	1797	1814	780
35°	1477	1511	1578	1639	1662	925
45°	1238	1275	1349	1423	1453	955
55°	981	1025	1092	1173	1214	877
65°	715	755	816	917	981	707
75°	448	486	533	637	762	476
85°	206	233	260	324	394	193
90°	132	155	179	212	243	75
95°	115	132	152	172	186	91
105°	98	108	121	135	142	102
115°	78	84	94	101	108	78
125°	57	57	67	67	71	52
135°	40	37	40	40	44	31
145°	24	20	20	20	24	15
155°	10	10	3	7	10	5
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°	1932.1	1932.1	1932.1	1932.1	1932.1
2.5°	1932.1	1928.7	1928.7	1928.7	1932.1
5°	1922.0	1922.0	1925.4	1925.4	1928.7
7.5°	1911.9	1911.9	1918.6	1922.0	1925.4
10°	1895.0	1898.4	1908.5	1915.3	1922.0
12.5°	1874.8	1878.2	1895.0	1908.5	1915.3
15°	1847.8	1854.6	1878.2	1891.6	1901.8
17.5°	1817.5	1827.6	1854.6	1874.8	1884.9
20°	1780.4	1793.9	1827.6	1854.6	1868.0
22.5°	1739.9	1753.4	1793.9	1827.6	1844.4
25°	1692.7	1712.9	1756.8	1797.2	1814.1
27.5°	1642.1	1665.7	1716.3	1763.5	1780.4
30°	1588.2	1615.2	1672.5	1723.1	1743.3
32.5°	1537.6	1564.6	1628.6	1682.6	1702.8
35°	1476.9	1510.6	1578.1	1638.8	1662.4
37.5°	1419.6	1453.3	1524.1	1588.2	1611.8
40°	1358.9	1392.6	1466.8	1537.6	1561.2
42.5°	1301.6	1335.3	1409.5	1483.6	1510.6
45°	1237.5	1274.6	1348.8	1423.0	1453.3
47.5°	1173.4	1210.5	1288.1	1365.6	1396.0
50°	1109.4	1149.8	1224.0	1301.6	1335.3
52.5°	1045.3	1085.8	1159.9	1240.9	1274.6
55°	981.2	1025.1	1092.5	1173.4	1213.9
57.5°	917.2	961.0	1028.4	1112.7	1153.2
60°	843.0	893.6	961.0	1048.7	1095.9
62.5°	778.9	822.7	890.2	981.2	1038.6
65°	714.8	755.3	816.0	917.2	981.2
67.5°	647.4	691.2	748.6	843.0	930.7
70°	583.3	620.4	677.8	775.5	873.3
72.5°	515.9	553.0	606.9	708.1	816.0
75°	448.5	485.6	532.8	637.3	762.1
77.5°	387.8	418.1	462.0	563.1	698.0
80°	320.3	350.7	391.1	482.2	613.7
82.5°	259.6	286.6	320.3	401.3	505.8
85°	205.7	232.7	259.6	323.7	394.5
87.5°	165.2	185.5	212.4	259.6	306.8
90°	131.5	155.1	178.7	212.4	242.8
92.5°	121.4	141.6	161.9	188.8	209.1
95°	114.6	131.5	151.7	172.0	185.5
97.5°	107.9	124.8	141.6	161.9	172.0
100°	104.5	118.0	134.9	151.7	158.5
102.5°	101.2	111.3	128.1	141.6	151.7
105°	97.8	107.9	121.4	134.9	141.6
107.5°	91.0	101.2	114.6	128.1	134.9
110°	87.7	94.4	107.9	118.0	128.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.3	91.0	101.2	111.3	118.0
115°	77.6	84.3	94.4	101.2	107.9
117.5°	74.2	77.6	87.7	91.0	97.8
120°	67.4	70.8	80.9	84.3	87.7
122.5°	60.7	64.1	74.2	74.2	80.9
125°	57.3	57.3	67.4	67.4	70.8
127.5°	54.0	54.0	60.7	60.7	64.1
130°	47.2	47.2	54.0	54.0	54.0
132.5°	43.8	40.5	47.2	47.2	50.6
135°	40.5	37.1	40.5	40.5	43.8
137.5°	33.7	33.7	37.1	33.7	37.1
140°	30.3	27.0	30.3	30.3	33.7
142.5°	27.0	23.6	27.0	23.6	27.0
145°	23.6	20.2	20.2	20.2	23.6
147.5°	20.2	16.9	16.9	16.9	20.2
150°	16.9	13.5	13.5	13.5	16.9
152.5°	13.5	10.1	6.7	10.1	13.5
155°	10.1	10.1	3.4	6.7	10.1
157.5°	6.7	6.7	0.0	3.4	6.7
160°	3.4	3.4	0.0	3.4	3.4
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)