

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: P384198

Luminaire Tested: **24ID-65-L830-CFD1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P384198  
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: 24ID-65-L830-CFD1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

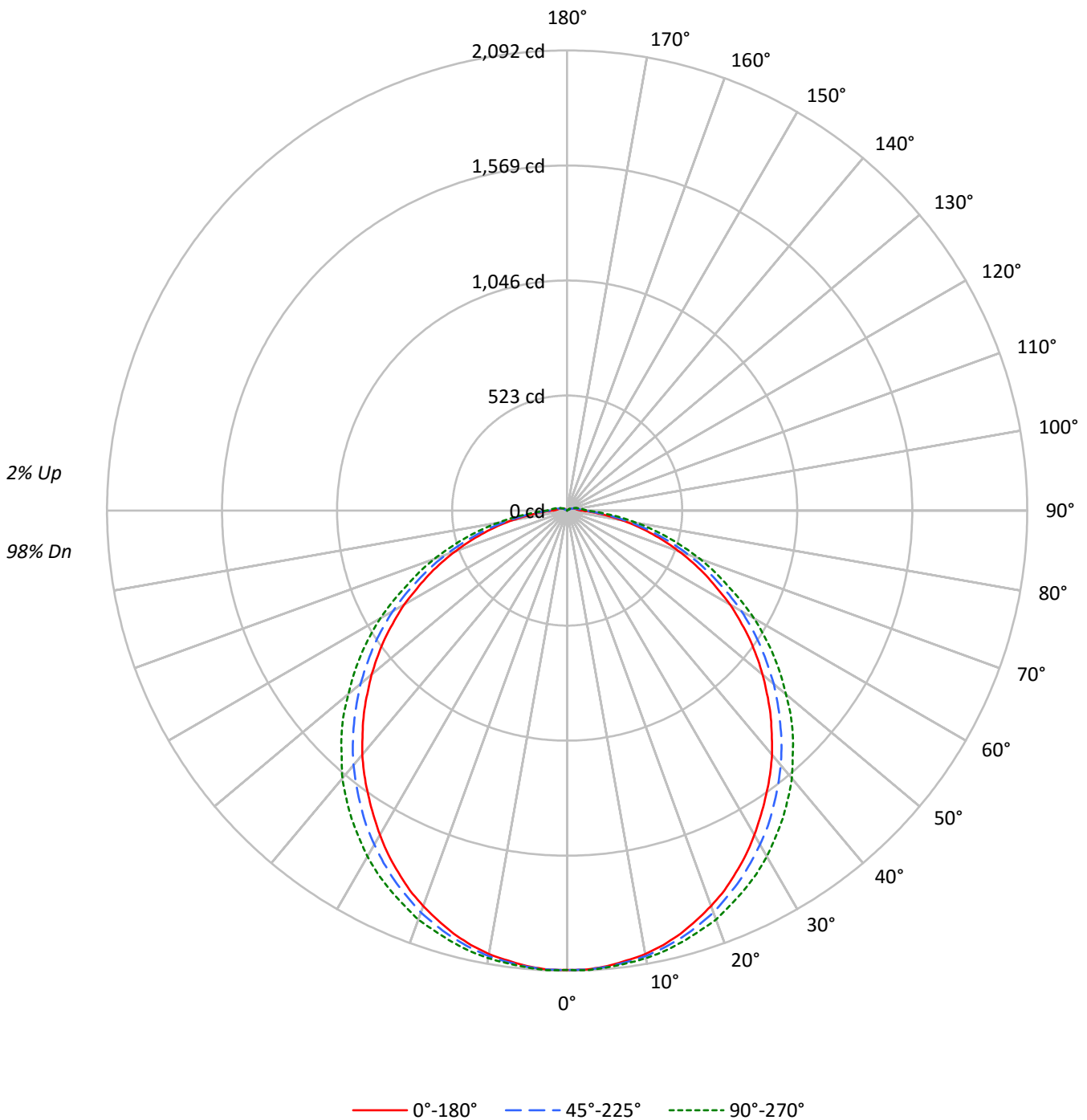
Lumens per Lamp: N/A  
Luminaire Lumens: 6185.4 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.08')  
CIE Type: Direct

Input Watts (W): 60.5  
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



TEST NUMBER: P384198  
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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	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°	2810	2810	2810
5°	2803	2801	2806
10°	2787	2789	2803
15°	2758	2767	2795
20°	2718	2740	2791
25°	2670	2700	2772
30°	2614	2656	2755
35°	2554	2608	2728
40°	2501	2560	2698
45°	2437	2497	2652
50°	2370	2438	2589
55°	2300	2367	2534
60°	2224	2289	2463
65°	2122	2170	2346
70°	2007	2057	2269
75°	1875	1903	2144
80°	1739	1729	2005
85°	1681	1608	1902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.8	3.2
10°-20°	567.0	9.2
20°-30°	856.0	13.8
30°-40°	1025.7	16.6
40°-50°	1060.4	17.1
50°-60°	960.3	15.5
60°-70°	743.1	12.0
70°-80°	456.5	7.4
80°-90°	181.4	2.9
90°-100°	66.2	1.1
100°-110°	40.7	0.7
110°-120°	20.9	0.3
120°-130°	8.9	0.1
130°-140°	0.6	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°	1620.8	26.2
0°-40°	2646.5	42.8
0°-60°	4667.2	75.5
0°-90°	6048.1	97.8
90°-120°	127.7	2.1
90°-150°	137.3	2.2
90°-180°	137.0	2.2
0°-180°	6185.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2079	2079	2082	2082	2085	197
15°	1991	1994	2010	2023	2029	561
25°	1816	1828	1856	1888	1904	837
35°	1577	1596	1637	1681	1709	988
45°	1308	1323	1370	1427	1452	1008
55°	1010	1032	1072	1120	1145	902
65°	696	712	746	784	803	689
75°	389	408	426	455	477	414
85°	135	144	157	172	182	134
90°	63	72	78	88	94	37
95°	47	53	60	66	72	38
105°	34	34	38	41	44	37
115°	22	19	19	22	25	22
125°	12	9	6	9	12	12
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: P384198

CATALOG NUMBER: 24ID-65-L830-CFD1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2088.5	2088.5	2088.5	2088.5	2088.5
2.5°	2088.5	2085.3	2088.5	2088.5	2091.6
5°	2079.1	2079.1	2082.2	2082.2	2085.3
7.5°	2063.4	2063.4	2069.7	2072.8	2075.9
10°	2047.7	2047.7	2057.1	2060.3	2066.5
12.5°	2022.6	2025.8	2035.2	2044.6	2050.8
15°	1991.3	1994.4	2010.1	2022.6	2028.9
17.5°	1953.6	1959.9	1978.7	1997.5	2003.8
20°	1912.9	1922.3	1944.2	1966.2	1978.7
22.5°	1869.0	1875.2	1900.3	1928.5	1941.1
25°	1815.7	1828.2	1856.4	1887.8	1903.5
27.5°	1762.3	1774.9	1806.2	1843.9	1862.7
30°	1702.8	1715.3	1752.9	1793.7	1815.7
32.5°	1640.0	1655.7	1699.6	1740.4	1762.3
35°	1577.3	1596.1	1636.9	1680.8	1709.0
37.5°	1514.6	1530.3	1574.2	1621.2	1649.5
40°	1448.8	1464.4	1511.5	1558.5	1589.9
42.5°	1376.6	1395.5	1442.5	1492.7	1517.8
45°	1307.6	1323.3	1370.4	1426.8	1451.9
47.5°	1232.4	1254.3	1298.2	1351.6	1379.8
50°	1160.3	1179.1	1226.1	1276.3	1298.2
52.5°	1085.0	1103.8	1147.7	1197.9	1223.0
55°	1009.7	1031.7	1072.5	1119.5	1144.6
57.5°	931.3	953.3	994.1	1034.8	1063.1
60°	856.1	878.0	915.7	956.4	981.5
62.5°	771.4	790.2	831.0	874.9	893.7
65°	696.2	711.8	746.3	784.0	802.8
67.5°	617.8	636.6	667.9	702.4	724.4
70°	539.4	561.3	586.4	617.8	642.8
72.5°	464.1	482.9	504.9	536.2	558.2
75°	388.8	407.7	426.5	454.7	476.6
77.5°	323.0	332.4	351.2	376.3	398.3
80°	250.9	263.4	279.1	304.2	319.9
82.5°	188.2	200.7	213.2	232.1	247.7
85°	134.8	144.2	156.8	172.5	181.9
87.5°	90.9	100.3	109.8	122.3	131.7
90°	62.7	72.1	78.4	87.8	94.1
92.5°	53.3	59.6	65.9	72.1	78.4
95°	47.0	53.3	59.6	65.9	72.1
97.5°	43.9	47.0	53.3	59.6	62.7
100°	40.8	43.9	47.0	53.3	56.4
102.5°	37.6	37.6	43.9	47.0	50.2
105°	34.5	34.5	37.6	40.8	43.9
107.5°	31.4	31.4	34.5	34.5	40.8
110°	28.2	25.1	28.2	28.2	34.5



TEST NUMBER: P384198

CATALOG NUMBER: 24ID-65-L830-CFD1

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.1	22.0	25.1	25.1	28.2
115°	22.0	18.8	18.8	22.0	25.1
117.5°	18.8	15.7	15.7	15.7	22.0
120°	18.8	15.7	12.5	12.5	18.8
122.5°	15.7	12.5	9.4	12.5	15.7
125°	12.5	9.4	6.3	9.4	12.5
127.5°	9.4	9.4	3.1	6.3	9.4
130°	9.4	6.3	3.1	6.3	6.3
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)