

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: P383870

Luminaire Tested: **24ID-75-L830-CFR1**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-75-L830-CFR1  
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -  
Ballast/Driver: -

**Summary**

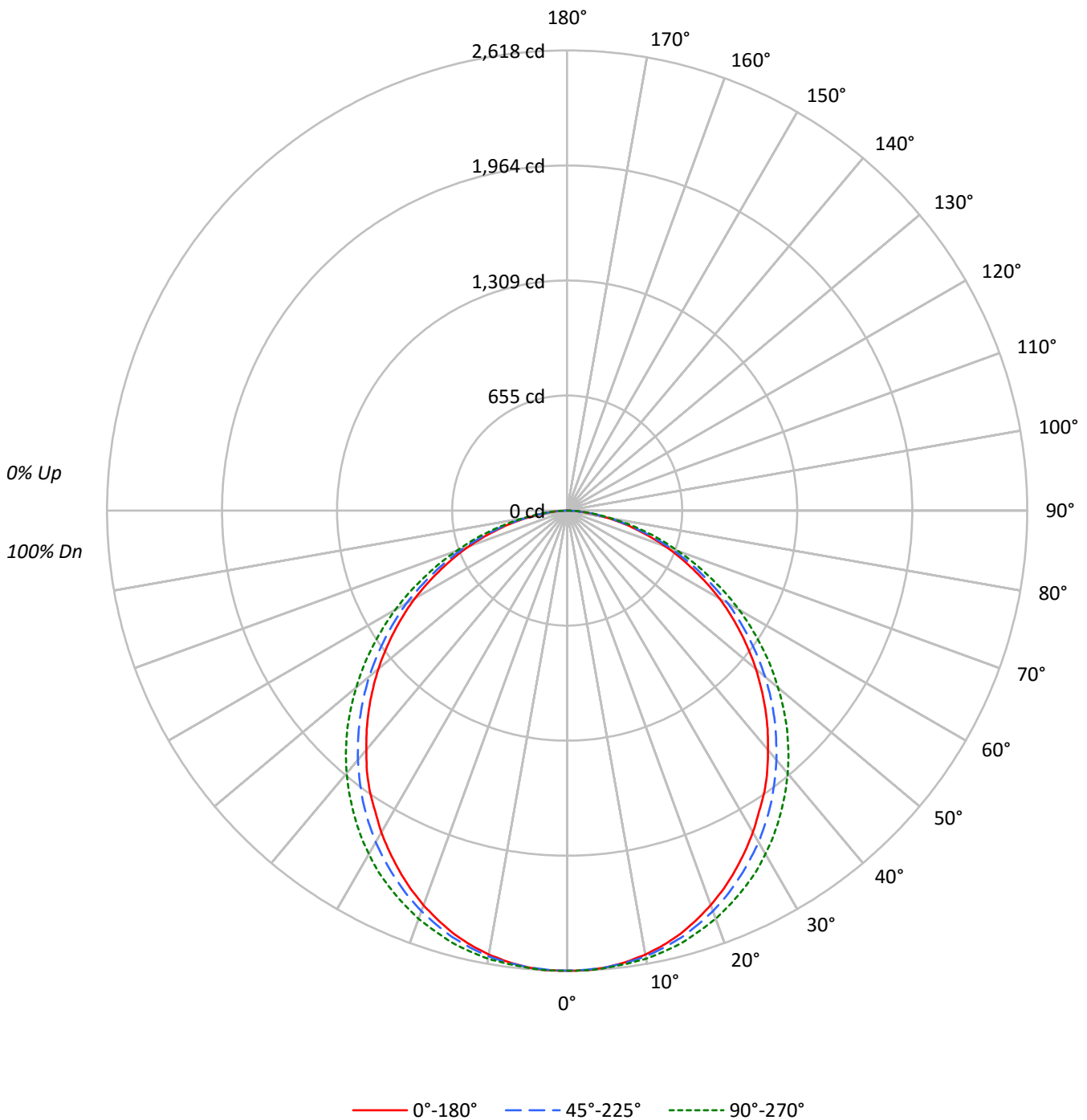
Lumens per Lamp: N/A  
Luminaire Lumens: 7110.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 70.8  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	3522	3522	3522
5°	3521	3521	3526
10°	3503	3518	3538
15°	3472	3502	3542
20°	3421	3472	3539
25°	3356	3430	3526
30°	3284	3384	3506
35°	3213	3325	3472
40°	3122	3254	3430
45°	3035	3171	3369
50°	2935	3077	3279
55°	2819	2962	3171
60°	2695	2839	3041
65°	2516	2664	2847
70°	2336	2462	2631
75°	2083	2194	2380
80°	1746	1829	1995
85°	1325	1325	1491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.8	3.5
10°-20°	709.0	10.0
20°-30°	1066.0	15.0
30°-40°	1268.2	17.8
40°-50°	1290.4	18.1
50°-60°	1135.6	16.0
60°-70°	833.0	11.7
70°-80°	452.2	6.4
80°-90°	107.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2022.8	28.4
0°-40°	3290.9	46.3
0°-60°	5716.9	80.4
0°-90°	7110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2618	2618	2618	2618	2618	
5°	2607	2604	2607	2607	2611	247
15°	2493	2496	2514	2528	2543	702
25°	2260	2275	2310	2350	2375	1041
35°	1956	1971	2024	2085	2114	1222
45°	1595	1609	1667	1738	1770	1230
55°	1202	1220	1262	1323	1352	1075
65°	790	805	837	873	894	786
75°	401	408	422	444	458	426
85°	86	86	86	93	97	104
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2618.0	2618.0	2618.0	2618.0	2618.0
2.5°	2618.0	2614.4	2614.4	2614.4	2618.0
5°	2607.2	2603.7	2607.2	2607.2	2610.8
7.5°	2589.3	2585.8	2592.9	2596.5	2600.1
10°	2564.3	2564.3	2575.0	2582.2	2589.3
12.5°	2532.1	2535.7	2546.4	2557.2	2567.9
15°	2492.8	2496.4	2514.2	2528.5	2542.9
17.5°	2442.7	2449.9	2471.3	2492.8	2507.1
20°	2389.1	2399.8	2424.8	2453.4	2471.3
22.5°	2328.3	2342.6	2371.2	2407.0	2424.8
25°	2260.3	2274.6	2310.4	2349.7	2374.8
27.5°	2188.8	2206.7	2246.0	2292.5	2321.1
30°	2113.7	2131.6	2178.1	2228.1	2256.7
32.5°	2031.4	2052.9	2103.0	2160.2	2188.8
35°	1956.3	1970.6	2024.3	2085.1	2113.7
37.5°	1870.5	1888.4	1938.4	2002.8	2035.0
40°	1777.5	1795.4	1852.6	1917.0	1952.7
42.5°	1688.1	1702.4	1759.6	1831.1	1863.3
45°	1595.1	1609.4	1666.6	1738.2	1770.3
47.5°	1498.5	1516.4	1570.1	1638.0	1670.2
50°	1402.0	1416.3	1469.9	1534.3	1566.5
52.5°	1301.8	1316.1	1366.2	1430.6	1462.8
55°	1201.7	1219.6	1262.5	1323.3	1351.9
57.5°	1101.5	1119.4	1158.8	1216.0	1241.0
60°	1001.4	1015.7	1055.1	1105.1	1130.2
62.5°	894.1	904.8	944.2	994.3	1015.7
65°	790.4	804.7	836.9	872.7	894.1
67.5°	693.8	701.0	729.6	768.9	783.2
70°	593.7	600.8	625.9	658.1	668.8
72.5°	493.5	504.3	522.2	550.8	565.1
75°	400.6	407.7	422.0	443.5	457.8
77.5°	311.2	314.7	325.5	343.3	354.1
80°	225.3	228.9	236.0	250.4	257.5
82.5°	150.2	153.8	157.4	164.5	171.7
85°	85.8	85.8	85.8	93.0	96.6
87.5°	32.2	28.6	28.6	28.6	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)