

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: P385218

Luminaire Tested: **24ID-80-L830-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-80-L830-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

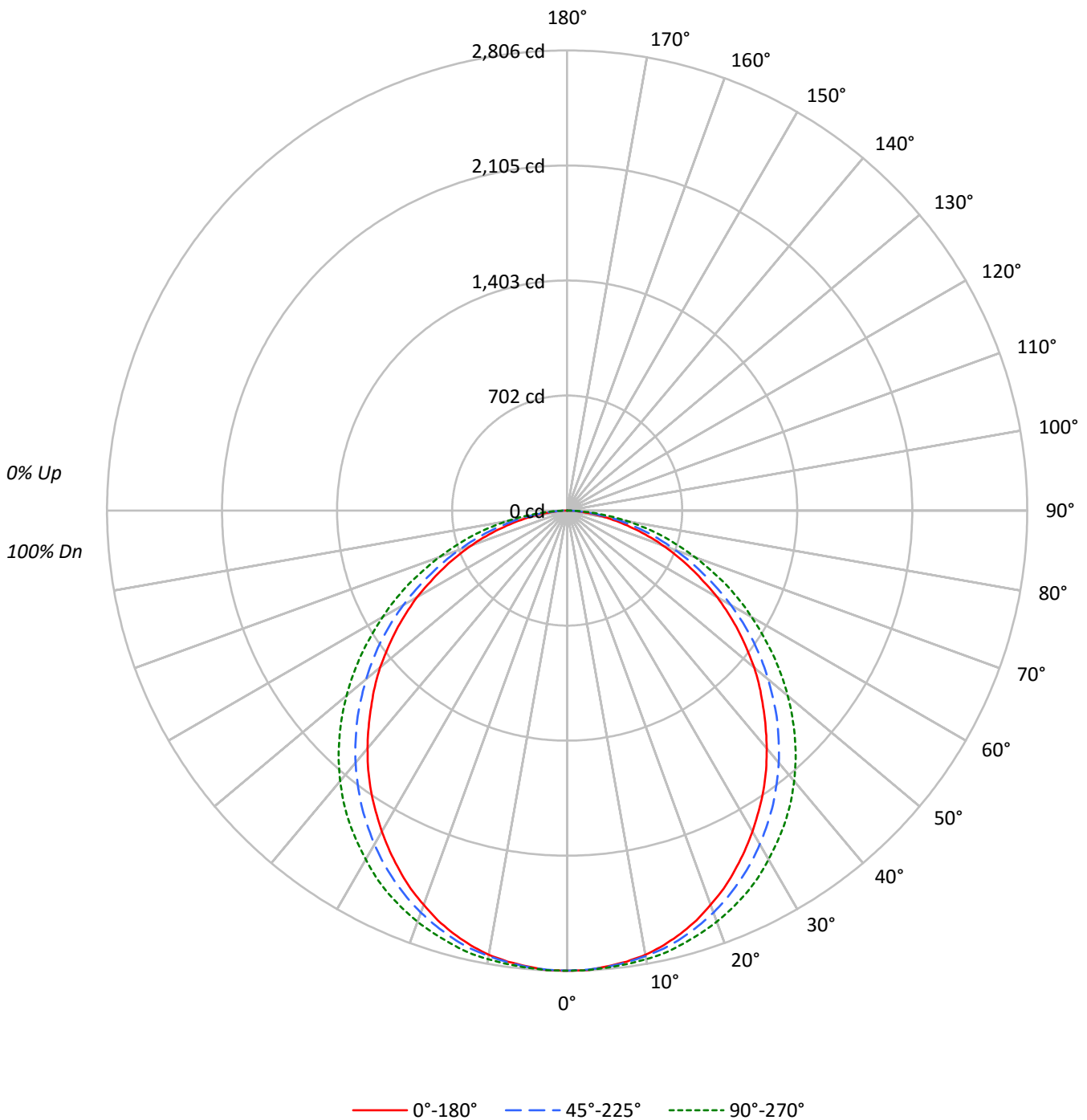
Lumens per Lamp: N/A  
Luminaire Lumens: 7789.8 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	3775	3775	3775
5°	3768	3773	3779
10°	3758	3769	3796
15°	3722	3760	3810
20°	3663	3736	3820
25°	3593	3699	3827
30°	3510	3651	3816
35°	3427	3595	3808
40°	3327	3527	3782
45°	3215	3447	3738
50°	3117	3348	3677
55°	2986	3245	3595
60°	2844	3109	3500
65°	2652	2927	3403
70°	2443	2751	3262
75°	2165	2554	3125
80°	1827	2283	2892
85°	1334	1760	2305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	3.4
10°-20°	761.9	9.8
20°-30°	1149.1	14.8
30°-40°	1371.9	17.6
40°-50°	1402.1	18.0
50°-60°	1243.3	16.0
60°-70°	926.8	11.9
70°-80°	529.5	6.8
80°-90°	139.7	1.8
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°	2176.6	27.9
0°-40°	3548.5	45.6
0°-60°	6193.8	79.5
0°-90°	7789.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7789.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2790	2790	2794	2794	2798	265
15°	2672	2680	2700	2723	2735	753
25°	2420	2440	2491	2546	2578	1114
35°	2086	2114	2189	2275	2318	1304
45°	1690	1725	1812	1910	1965	1305
55°	1273	1297	1383	1481	1532	1138
65°	833	853	920	1014	1069	826
75°	416	436	491	566	601	444
85°	86	90	114	142	149	108
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2805.6	2805.6	2805.6	2805.6	2805.6
2.5°	2805.6	2801.7	2801.7	2801.7	2805.6
5°	2789.9	2789.9	2793.8	2793.8	2797.8
7.5°	2774.2	2774.2	2778.1	2782.0	2789.9
10°	2750.6	2750.6	2758.5	2770.2	2778.1
12.5°	2715.2	2719.2	2734.9	2750.6	2762.4
15°	2672.0	2679.9	2699.5	2723.1	2734.9
17.5°	2620.9	2628.8	2656.3	2687.7	2703.4
20°	2558.1	2573.8	2609.1	2648.4	2668.1
22.5°	2495.2	2510.9	2554.1	2601.3	2624.9
25°	2420.5	2440.2	2491.3	2546.3	2577.7
27.5°	2341.9	2365.5	2424.5	2487.3	2522.7
30°	2259.4	2286.9	2349.8	2420.5	2455.9
32.5°	2173.0	2200.5	2271.2	2349.8	2389.1
35°	2086.5	2114.0	2188.7	2275.1	2318.4
37.5°	1992.2	2019.7	2098.3	2192.6	2239.8
40°	1894.0	1925.4	2007.9	2102.2	2153.3
42.5°	1791.8	1827.2	1909.7	2011.9	2063.0
45°	1689.7	1725.0	1811.5	1909.7	1964.7
47.5°	1591.4	1618.9	1705.4	1807.5	1862.6
50°	1489.3	1512.8	1599.3	1701.4	1756.5
52.5°	1379.2	1410.7	1493.2	1595.3	1646.4
55°	1273.1	1296.7	1383.2	1481.4	1532.5
57.5°	1163.1	1186.7	1269.2	1367.4	1414.6
60°	1057.0	1080.6	1155.3	1253.5	1300.6
62.5°	939.1	962.7	1037.4	1139.5	1186.7
65°	833.0	852.7	919.5	1013.8	1068.8
67.5°	726.9	746.6	809.5	899.8	943.1
70°	620.9	636.6	699.4	782.0	829.1
72.5°	518.7	534.4	597.3	671.9	711.2
75°	416.5	436.2	491.2	565.8	601.2
77.5°	322.2	341.9	389.0	455.8	487.2
80°	235.8	251.5	294.7	345.8	373.3
82.5°	157.2	169.0	200.4	243.6	263.3
85°	86.4	90.4	114.0	141.5	149.3
87.5°	35.4	35.4	43.2	47.2	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)