

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: P385210

Luminaire Tested: **24ID-70-L830-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385210  
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-70-L830-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

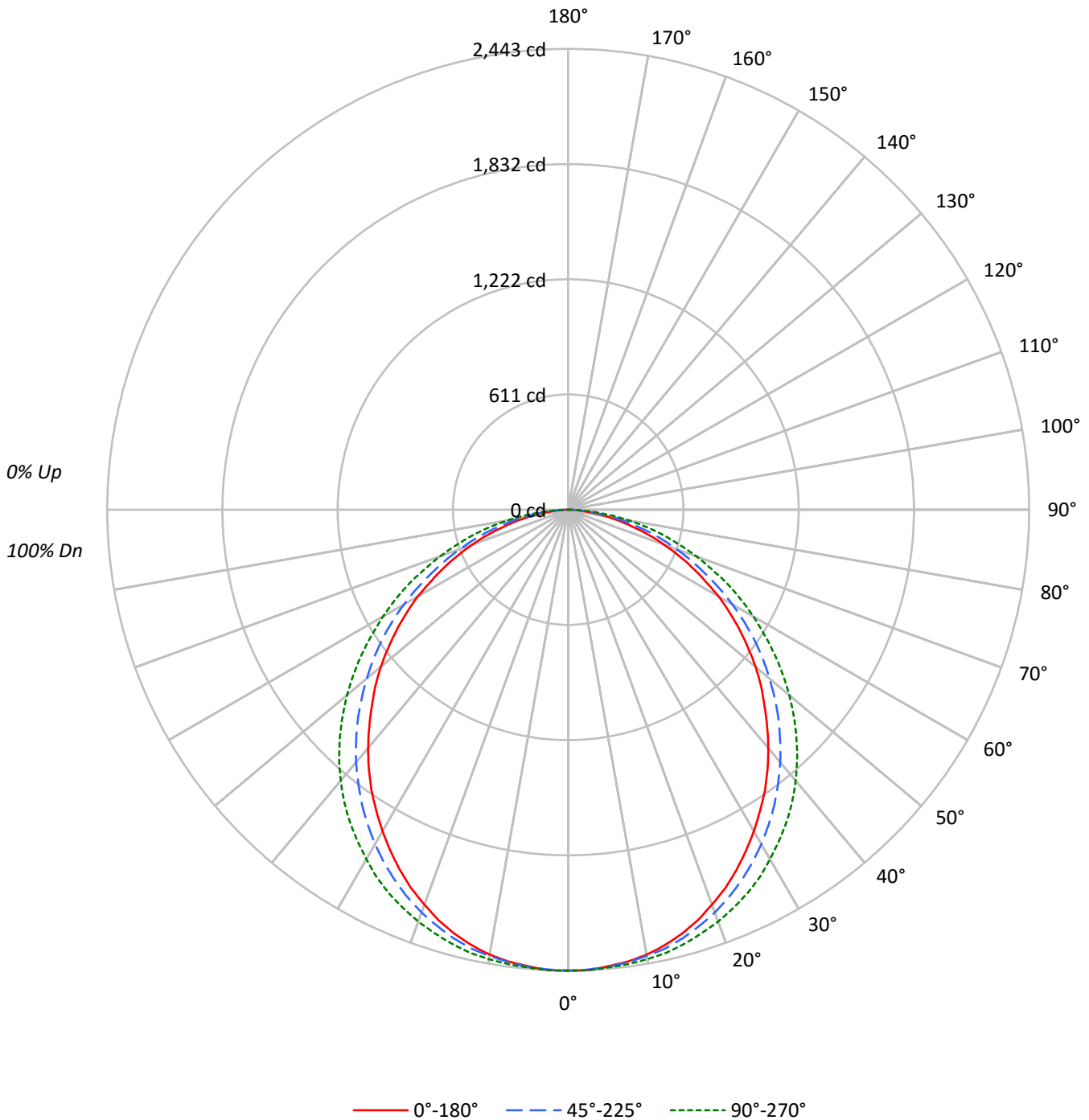
Lumens per Lamp: N/A  
Luminaire Lumens: 6783.7 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 65.6  
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°	3287	3287	3287
5°	3281	3286	3291
10°	3273	3282	3305
15°	3241	3275	3318
20°	3190	3253	3327
25°	3129	3221	3333
30°	3057	3179	3323
35°	2984	3131	3316
40°	2897	3071	3294
45°	2800	3002	3256
50°	2715	2915	3202
55°	2601	2826	3130
60°	2477	2707	3048
65°	2309	2549	2963
70°	2127	2396	2840
75°	1886	2223	2722
80°	1591	1988	2519
85°	1162	1531	2007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.3	3.4
10°-20°	663.5	9.8
20°-30°	1000.7	14.8
30°-40°	1194.7	17.6
40°-50°	1221.0	18.0
50°-60°	1082.7	16.0
60°-70°	807.1	11.9
70°-80°	461.1	6.8
80°-90°	121.6	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°	1895.5	27.9
0°-40°	3090.2	45.6
0°-60°	5393.9	79.5
0°-90°	6783.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6783.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2430	2430	2433	2433	2436	231
15°	2327	2334	2351	2371	2382	656
25°	2108	2125	2170	2217	2245	971
35°	1817	1841	1906	1981	2019	1135
45°	1471	1502	1578	1663	1711	1137
55°	1109	1129	1204	1290	1334	991
65°	725	743	801	883	931	719
75°	363	380	428	493	524	387
85°	75	79	99	123	130	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2443.3	2443.3	2443.3	2443.3	2443.3
2.5°	2443.3	2439.8	2439.8	2439.8	2443.3
5°	2429.6	2429.6	2433.0	2433.0	2436.4
7.5°	2415.9	2415.9	2419.3	2422.7	2429.6
10°	2395.3	2395.3	2402.2	2412.5	2419.3
12.5°	2364.5	2368.0	2381.7	2395.3	2405.6
15°	2326.9	2333.8	2350.9	2371.4	2381.7
17.5°	2282.4	2289.3	2313.2	2340.6	2354.3
20°	2227.7	2241.4	2272.2	2306.4	2323.5
22.5°	2172.9	2186.6	2224.2	2265.3	2285.8
25°	2107.9	2125.0	2169.5	2217.4	2244.8
27.5°	2039.5	2060.0	2111.3	2166.1	2196.9
30°	1967.6	1991.6	2046.3	2107.9	2138.7
32.5°	1892.3	1916.3	1977.9	2046.3	2080.5
35°	1817.0	1841.0	1906.0	1981.3	2018.9
37.5°	1734.9	1758.9	1827.3	1909.4	1950.5
40°	1649.4	1676.7	1748.6	1830.7	1875.2
42.5°	1560.4	1591.2	1663.1	1752.0	1796.5
45°	1471.4	1502.2	1577.5	1663.1	1711.0
47.5°	1385.9	1409.8	1485.1	1574.1	1622.0
50°	1296.9	1317.4	1392.7	1481.7	1529.6
52.5°	1201.1	1228.5	1300.3	1389.3	1433.8
55°	1108.7	1129.2	1204.5	1290.1	1334.5
57.5°	1012.9	1033.4	1105.3	1190.8	1231.9
60°	920.5	941.0	1006.0	1091.6	1132.7
62.5°	817.8	838.4	903.4	992.4	1033.4
65°	725.4	742.6	800.7	882.9	930.8
67.5°	633.1	650.2	704.9	783.6	821.3
70°	540.7	554.4	609.1	681.0	722.0
72.5°	451.7	465.4	520.1	585.1	619.4
75°	362.7	379.8	427.7	492.8	523.6
77.5°	280.6	297.7	338.8	396.9	424.3
80°	205.3	219.0	256.6	301.1	325.1
82.5°	136.9	147.1	174.5	212.2	229.3
85°	75.3	78.7	99.2	123.2	130.0
87.5°	30.8	30.8	37.6	41.1	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)