

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: P385282

Luminaire Tested: **14ID-85-L830-CNV**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 14ID-85-L830-CNV  
Description: 1X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -  
Ballast/Driver: -

**Summary**

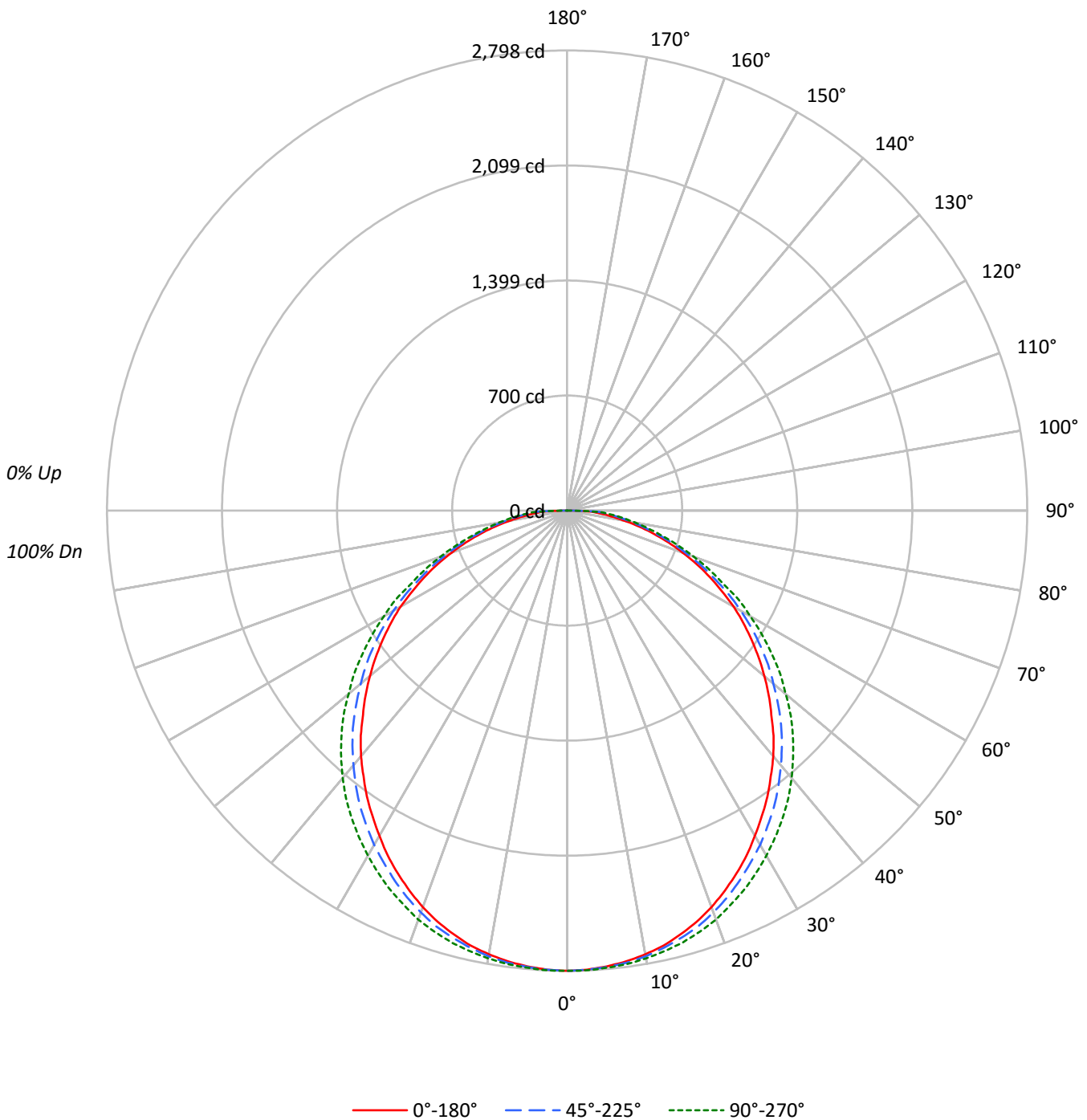
Lumens per Lamp: N/A  
Luminaire Lumens: 8116.3 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 83.3  
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: P385282  
CATALOG NUMBER: 14ID-85-L830-CNV

### Luminous Intensity Polar Plot





TEST NUMBER: P385282

CATALOG NUMBER: 14ID-85-L830-CNV

**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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	7530	7530	7530
5°	7486	7429	7428
10°	7430	7329	7339
15°	7349	7206	7249
20°	7239	7067	7145
25°	7093	6895	7012
30°	6928	6720	6867
35°	6777	6536	6717
40°	6619	6321	6543
45°	6415	6104	6333
50°	6245	5832	6059
55°	6055	5562	5758
60°	5869	5230	5376
65°	5600	4820	4890
70°	5274	4373	4419
75°	4899	3879	3869
80°	4391	3349	3329
85°	4149	2913	2826



TEST NUMBER: P385282

CATALOG NUMBER: 14ID-85-L830-CNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.8	3.3
10°-20°	758.8	9.3
20°-30°	1145.1	14.1
30°-40°	1374.4	16.9
40°-50°	1422.4	17.5
50°-60°	1288.6	15.9
60°-70°	992.8	12.2
70°-80°	614.3	7.6
80°-90°	255.2	3.1
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°	2168.6	26.7
0°-40°	3543.1	43.7
0°-60°	6254.0	77.1
0°-90°	8116.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8116.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2782	2782	2786	2786	2790	264
15°	2668	2672	2689	2706	2718	752
25°	2435	2444	2482	2524	2545	1122
35°	2123	2140	2195	2254	2283	1327
45°	1756	1781	1840	1908	1942	1358
55°	1368	1389	1435	1498	1520	1224
65°	958	966	996	1038	1042	947
75°	544	557	578	604	604	577
85°	198	220	253	270	266	214
90°	0	0	0	0	0	



TEST NUMBER: P385282

CATALOG NUMBER: 14ID-85-L830-CNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2798.3	2798.3	2798.3	2798.3	2798.3
2.5°	2794.1	2794.1	2794.1	2794.1	2798.3
5°	2781.5	2781.5	2785.7	2785.7	2789.9
7.5°	2764.6	2764.6	2773.0	2773.0	2781.5
10°	2739.2	2743.5	2751.9	2756.1	2764.6
12.5°	2709.7	2709.7	2722.4	2735.0	2743.5
15°	2667.5	2671.7	2688.6	2705.5	2718.1
17.5°	2621.1	2625.3	2650.6	2667.5	2684.4
20°	2566.2	2570.4	2600.0	2625.3	2646.4
22.5°	2502.9	2511.3	2545.1	2578.9	2595.7
25°	2435.4	2443.8	2481.8	2524.0	2545.1
27.5°	2363.6	2376.3	2414.3	2460.7	2486.0
30°	2283.4	2300.3	2346.7	2397.4	2422.7
32.5°	2203.2	2220.1	2270.7	2329.8	2355.2
35°	2123.0	2139.9	2194.8	2253.9	2283.4
37.5°	2034.4	2051.3	2110.4	2173.7	2207.4
40°	1950.0	1966.9	2021.7	2093.5	2123.0
42.5°	1857.1	1874.0	1933.1	2000.6	2034.4
45°	1755.8	1781.1	1840.2	1907.8	1941.5
47.5°	1663.0	1684.1	1738.9	1810.7	1844.5
50°	1565.9	1587.0	1637.6	1709.4	1734.7
52.5°	1468.8	1489.9	1540.6	1608.1	1633.4
55°	1367.5	1388.6	1435.0	1498.4	1519.5
57.5°	1270.4	1287.3	1329.5	1388.6	1405.5
60°	1169.1	1186.0	1219.8	1274.7	1287.3
62.5°	1059.4	1072.1	1110.0	1160.7	1177.6
65°	958.1	966.5	996.1	1038.3	1042.5
67.5°	852.6	861.0	890.6	920.1	932.8
70°	747.1	759.7	780.8	810.4	818.8
72.5°	645.8	658.4	679.5	704.9	709.1
75°	544.5	557.1	578.2	603.6	603.6
77.5°	447.4	460.1	485.4	506.5	506.5
80°	350.3	371.4	396.7	417.9	417.9
82.5°	270.1	287.0	320.8	337.7	337.7
85°	198.4	219.5	253.2	270.1	265.9
87.5°	143.5	164.6	194.2	206.8	202.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)