

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: P385386

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385386
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: 24ID-80-L830-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

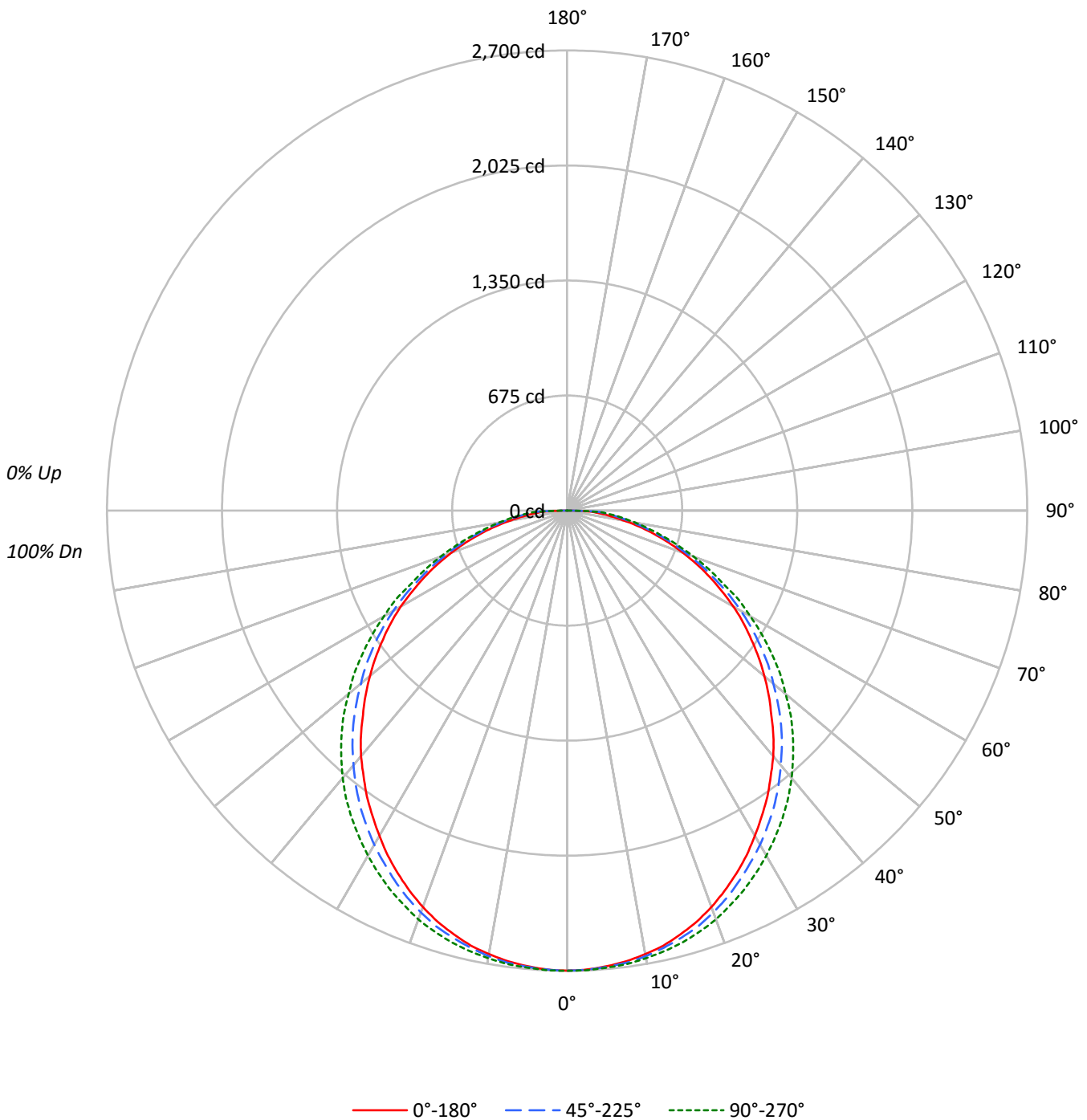
Lumens per Lamp: N/A
Luminaire Lumens: 7830.5 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 77
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	3633	3633	3633
5°	3611	3602	3609
10°	3584	3572	3591
15°	3545	3530	3573
20°	3492	3480	3548
25°	3422	3414	3509
30°	3342	3347	3465
35°	3269	3275	3419
40°	3193	3189	3363
45°	3094	3104	3290
50°	3013	2992	3187
55°	2921	2884	3073
60°	2831	2746	2921
65°	2702	2572	2717
70°	2544	2384	2529
75°	2363	2181	2309
80°	2118	1976	2121
85°	2002	1876	2028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.3
10°-20°	732.1	9.3
20°-30°	1104.7	14.1
30°-40°	1326.0	16.9
40°-50°	1372.3	17.5
50°-60°	1243.2	15.9
60°-70°	957.8	12.2
70°-80°	592.7	7.6
80°-90°	246.2	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°	2092.3	26.7
0°-40°	3418.3	43.7
0°-60°	6033.8	77.1
0°-90°	7830.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7830.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2700	2700	2700	2700	2700	
5°	2684	2684	2688	2688	2692	255
15°	2574	2578	2594	2610	2622	726
25°	2350	2358	2394	2435	2456	1082
35°	2048	2065	2118	2174	2203	1281
45°	1694	1718	1775	1841	1873	1310
55°	1319	1340	1384	1446	1466	1181
65°	924	932	961	1002	1006	914
75°	525	538	558	582	582	556
85°	191	212	244	261	256	207
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2699.8	2699.8	2699.8	2699.8	2699.8
2.5°	2695.7	2695.7	2695.7	2695.7	2699.8
5°	2683.5	2683.5	2687.6	2687.6	2691.7
7.5°	2667.2	2667.2	2675.4	2675.4	2683.5
10°	2642.8	2646.9	2655.0	2659.1	2667.2
12.5°	2614.3	2614.3	2626.5	2638.7	2646.9
15°	2573.6	2577.6	2593.9	2610.2	2622.4
17.5°	2528.8	2532.8	2557.3	2573.6	2589.9
20°	2475.8	2479.9	2508.4	2532.8	2553.2
22.5°	2414.8	2422.9	2455.5	2488.0	2504.3
25°	2349.6	2357.7	2394.4	2435.1	2455.5
27.5°	2280.4	2292.6	2329.2	2374.0	2398.5
30°	2203.0	2219.3	2264.1	2312.9	2337.4
32.5°	2125.6	2141.9	2190.8	2247.8	2272.2
35°	2048.3	2064.6	2117.5	2174.5	2203.0
37.5°	1962.7	1979.0	2036.0	2097.1	2129.7
40°	1881.3	1897.6	1950.5	2019.8	2048.3
42.5°	1791.7	1808.0	1865.0	1930.2	1962.7
45°	1694.0	1718.4	1775.4	1840.6	1873.2
47.5°	1604.4	1624.8	1677.7	1746.9	1779.5
50°	1510.7	1531.1	1580.0	1649.2	1673.6
52.5°	1417.1	1437.4	1486.3	1551.5	1575.9
55°	1319.4	1339.7	1384.5	1445.6	1466.0
57.5°	1225.7	1242.0	1282.7	1339.7	1356.0
60°	1128.0	1144.3	1176.8	1229.8	1242.0
62.5°	1022.1	1034.3	1071.0	1119.8	1136.1
65°	924.4	932.5	961.0	1001.7	1005.8
67.5°	822.6	830.7	859.2	887.7	899.9
70°	720.8	733.0	753.3	781.8	790.0
72.5°	623.0	635.2	655.6	680.0	684.1
75°	525.3	537.5	557.9	582.3	582.3
77.5°	431.6	443.9	468.3	488.7	488.7
80°	338.0	358.3	382.8	403.1	403.1
82.5°	260.6	276.9	309.5	325.8	325.8
85°	191.4	211.7	244.3	260.6	256.5
87.5°	138.5	158.8	187.3	199.5	195.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)