

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: P297124

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-80L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7702.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

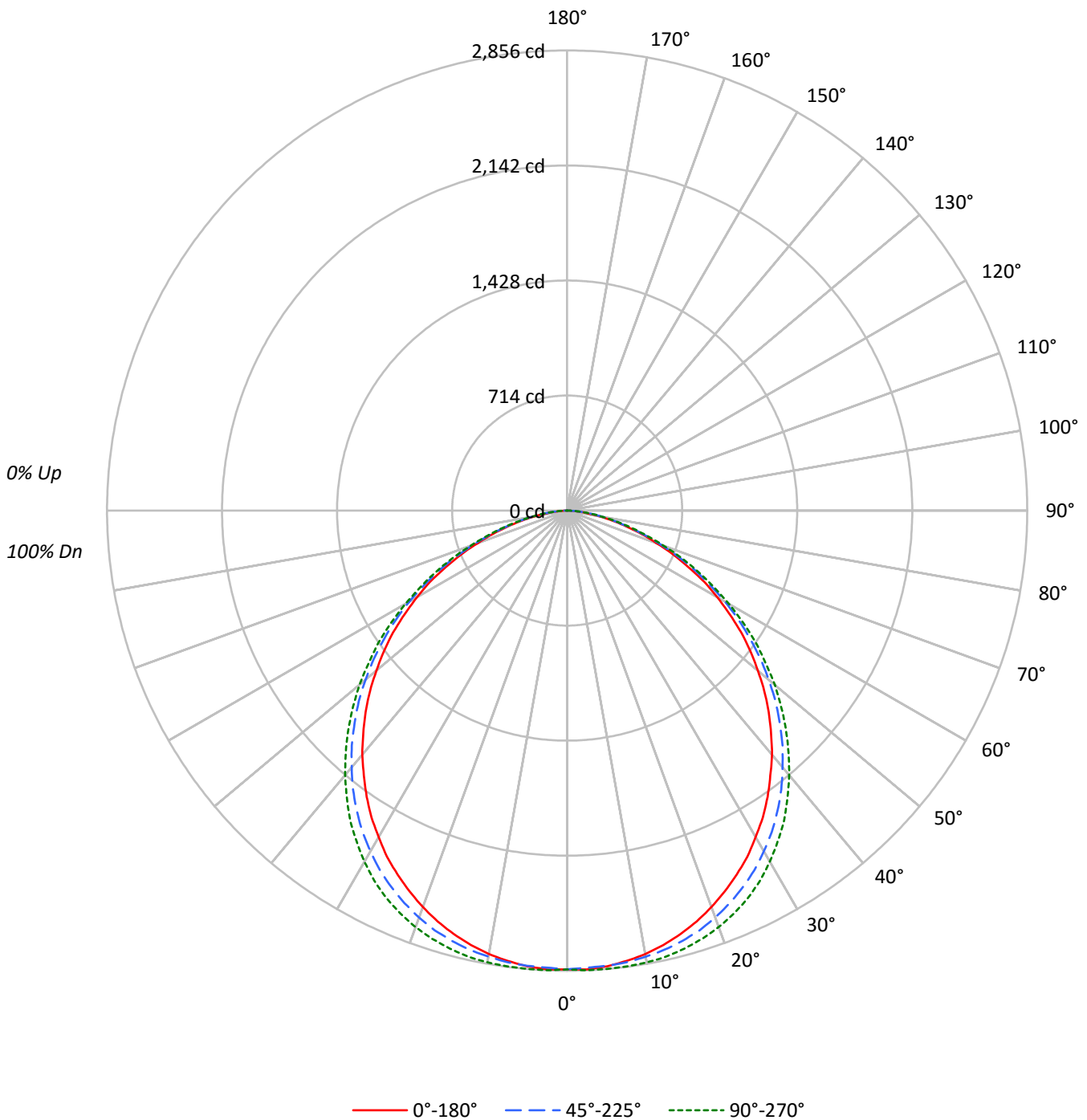
Input Watts (W): 61.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3831	3831	3831
5°	3834	3831	3857
10°	3818	3841	3890
15°	3789	3851	3920
20°	3749	3848	3939
25°	3699	3830	3940
30°	3635	3794	3909
35°	3562	3739	3857
40°	3475	3654	3765
45°	3365	3549	3654
50°	3234	3419	3523
55°	3094	3249	3353
60°	2895	3044	3118
65°	2644	2784	2855
70°	2323	2442	2507
75°	1965	2065	2137
80°	1561	1710	1753
85°	1065	1278	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	3.5
10°-20°	781.1	10.1
20°-30°	1187.0	15.4
30°-40°	1416.3	18.4
40°-50°	1430.5	18.6
50°-60°	1232.4	16.0
60°-70°	859.2	11.2
70°-80°	425.8	5.5
80°-90°	99.3	1.3
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°	2238.6	29.1
0°-40°	3654.9	47.5
0°-60°	6317.8	82.0
0°-90°	7702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2847	2847	2847	2847	2847	
5°	2839	2836	2836	2850	2856	270
15°	2720	2734	2764	2800	2814	767
25°	2491	2524	2580	2632	2654	1148
35°	2169	2204	2276	2329	2348	1355
45°	1768	1807	1865	1909	1920	1363
55°	1319	1346	1385	1418	1429	1175
65°	830	847	875	883	897	825
75°	378	384	397	406	411	407
85°	69	83	83	77	80	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2847.3	2847.3	2847.3	2847.3	2847.3
2.5°	2850.0	2844.5	2839.0	2850.0	2855.5
5°	2839.0	2836.2	2836.2	2850.0	2855.5
7.5°	2819.7	2819.7	2828.0	2847.3	2852.8
10°	2794.8	2800.4	2811.4	2839.0	2847.3
12.5°	2761.7	2772.8	2792.1	2825.2	2836.2
15°	2720.4	2734.1	2764.5	2800.4	2814.2
17.5°	2673.5	2692.8	2731.4	2772.8	2786.6
20°	2618.3	2643.1	2687.2	2734.1	2750.7
22.5°	2557.6	2587.9	2637.6	2687.2	2706.6
25°	2491.4	2524.5	2579.6	2632.1	2654.1
27.5°	2422.4	2455.5	2516.2	2568.6	2590.7
30°	2339.6	2378.2	2441.7	2496.9	2516.2
32.5°	2259.6	2298.2	2364.4	2414.1	2433.4
35°	2168.6	2204.4	2276.2	2328.6	2347.9
37.5°	2072.0	2113.4	2182.4	2229.3	2245.8
40°	1978.2	2014.1	2080.3	2127.2	2143.7
42.5°	1873.3	1912.0	1978.2	2019.6	2033.4
45°	1768.5	1807.1	1865.1	1909.2	1920.2
47.5°	1660.9	1696.8	1754.7	1790.6	1801.6
50°	1545.0	1578.1	1633.3	1669.2	1683.0
52.5°	1434.7	1465.0	1511.9	1542.3	1550.5
55°	1318.8	1346.4	1385.0	1418.1	1429.2
57.5°	1194.6	1225.0	1260.9	1288.4	1296.7
60°	1076.0	1100.8	1131.2	1156.0	1158.8
62.5°	960.1	971.2	998.8	1020.8	1023.6
65°	830.5	847.0	874.6	882.9	896.7
67.5°	711.8	722.9	744.9	756.0	767.0
70°	590.4	598.7	620.8	634.6	637.3
72.5°	485.6	488.3	504.9	515.9	518.7
75°	378.0	383.5	397.3	405.6	411.1
77.5°	286.9	292.5	303.5	309.0	309.0
80°	201.4	209.7	220.7	223.5	226.2
82.5°	129.7	140.7	149.0	151.7	146.2
85°	69.0	82.8	82.8	77.3	80.0
87.5°	24.8	30.3	33.1	35.9	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)