

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: P296844

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-80L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7689.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

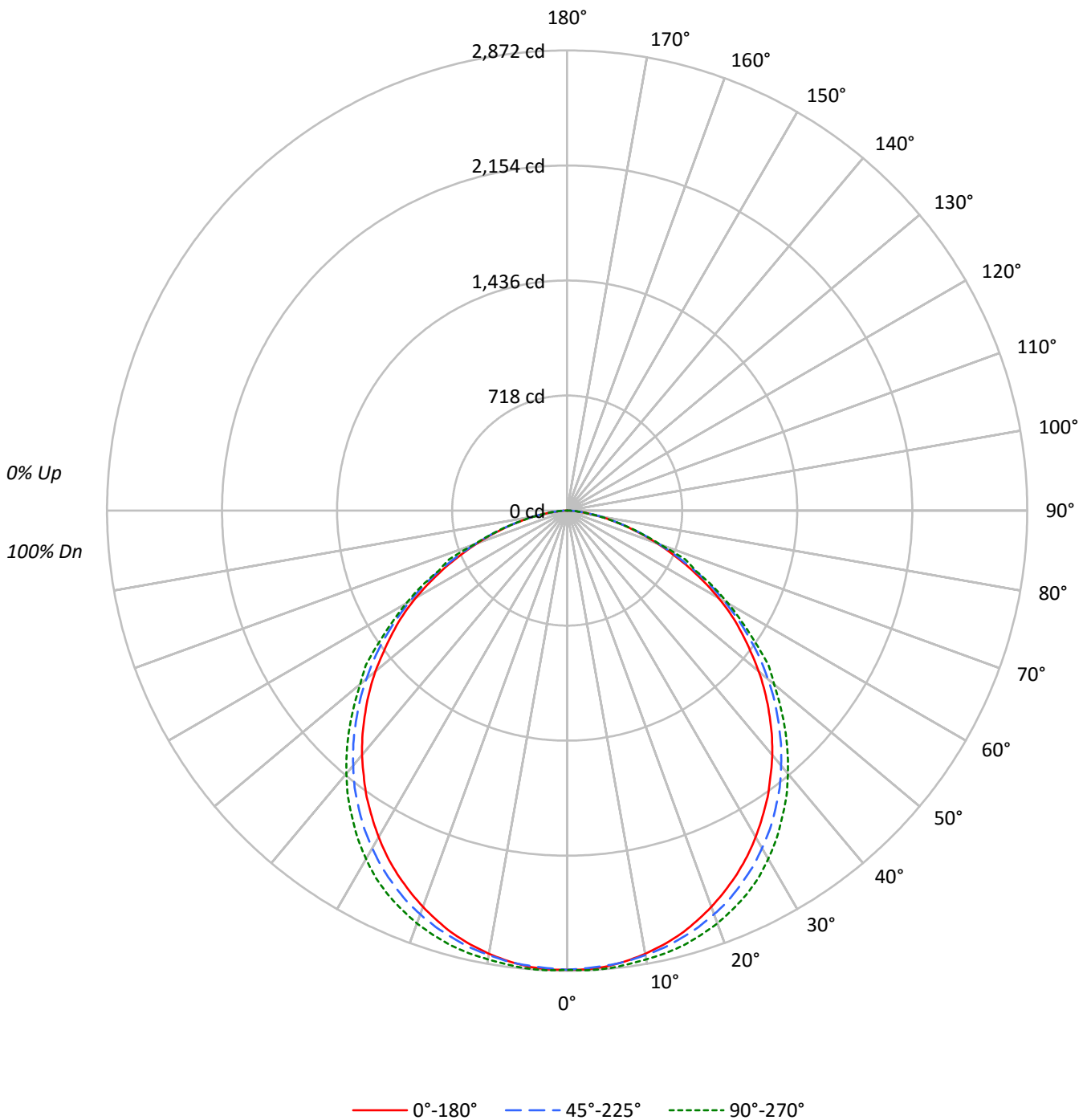
Input Watts (W): 61.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3857	3857	3857
5°	3857	3849	3875
10°	3837	3848	3886
15°	3812	3847	3912
20°	3768	3840	3927
25°	3719	3817	3928
30°	3656	3780	3900
35°	3584	3725	3843
40°	3499	3649	3765
45°	3391	3549	3659
50°	3269	3424	3528
55°	3119	3262	3359
60°	2940	3051	3126
65°	2670	2758	2811
70°	2344	2399	2431
75°	1979	2008	2022
80°	1582	1603	1561
85°	1065	1107	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	3.5
10°-20°	781.2	10.2
20°-30°	1185.3	15.4
30°-40°	1415.1	18.4
40°-50°	1432.6	18.6
50°-60°	1238.3	16.1
60°-70°	858.3	11.2
70°-80°	415.3	5.4
80°-90°	91.3	1.2
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°	2238.1	29.1
0°-40°	3653.2	47.5
0°-60°	6324.2	82.2
0°-90°	7689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2855	2853	2850	2864	2869	271
15°	2737	2742	2762	2795	2808	771
25°	2505	2522	2571	2624	2646	1154
35°	2182	2202	2268	2326	2340	1363
45°	1782	1807	1865	1912	1923	1375
55°	1330	1344	1390	1448	1432	1188
65°	839	847	866	880	883	830
75°	381	384	386	384	389	409
85°	69	74	72	69	69	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2866.4	2866.4	2866.4	2866.4	2866.4
2.5°	2866.4	2863.6	2858.1	2866.4	2871.9
5°	2855.4	2852.6	2849.9	2863.6	2869.2
7.5°	2836.1	2836.1	2838.8	2852.6	2858.1
10°	2808.5	2811.2	2816.7	2838.8	2844.3
12.5°	2775.4	2780.9	2794.7	2819.5	2830.5
15°	2736.7	2742.3	2761.6	2794.7	2808.5
17.5°	2687.1	2698.1	2725.7	2764.3	2778.1
20°	2631.9	2645.7	2681.6	2725.7	2742.3
22.5°	2571.2	2585.0	2631.9	2678.8	2695.4
25°	2505.0	2521.6	2571.2	2623.6	2645.7
27.5°	2433.3	2452.6	2507.8	2562.9	2585.0
30°	2353.3	2375.3	2433.3	2491.2	2510.5
32.5°	2267.7	2289.8	2356.0	2411.2	2430.5
35°	2182.2	2201.5	2267.7	2325.7	2339.5
37.5°	2085.7	2107.7	2179.5	2229.1	2248.4
40°	1991.9	2013.9	2077.4	2127.0	2143.6
42.5°	1889.8	1911.9	1975.3	2022.2	2036.0
45°	1782.2	1807.0	1865.0	1911.9	1922.9
47.5°	1674.6	1693.9	1754.6	1796.0	1804.3
50°	1561.5	1580.8	1636.0	1677.4	1685.6
52.5°	1442.9	1473.2	1517.3	1547.7	1583.6
55°	1329.7	1343.5	1390.4	1448.4	1431.8
57.5°	1216.6	1224.9	1263.5	1288.4	1293.9
60°	1092.5	1103.5	1133.9	1147.7	1161.5
62.5°	962.8	971.1	1007.0	1020.8	1026.3
65°	838.7	847.0	866.3	880.1	882.8
67.5°	711.8	720.0	736.6	747.6	797.3
70°	595.9	601.4	609.7	631.8	618.0
72.5°	485.6	488.3	496.6	496.6	499.3
75°	380.7	383.5	386.2	383.5	389.0
77.5°	284.2	289.7	292.4	289.7	286.9
80°	204.2	209.7	206.9	201.4	201.4
82.5°	132.4	135.2	132.4	129.7	129.7
85°	69.0	74.5	71.7	69.0	69.0
87.5°	24.8	27.6	30.3	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)