

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: P297122

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297122
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7406.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

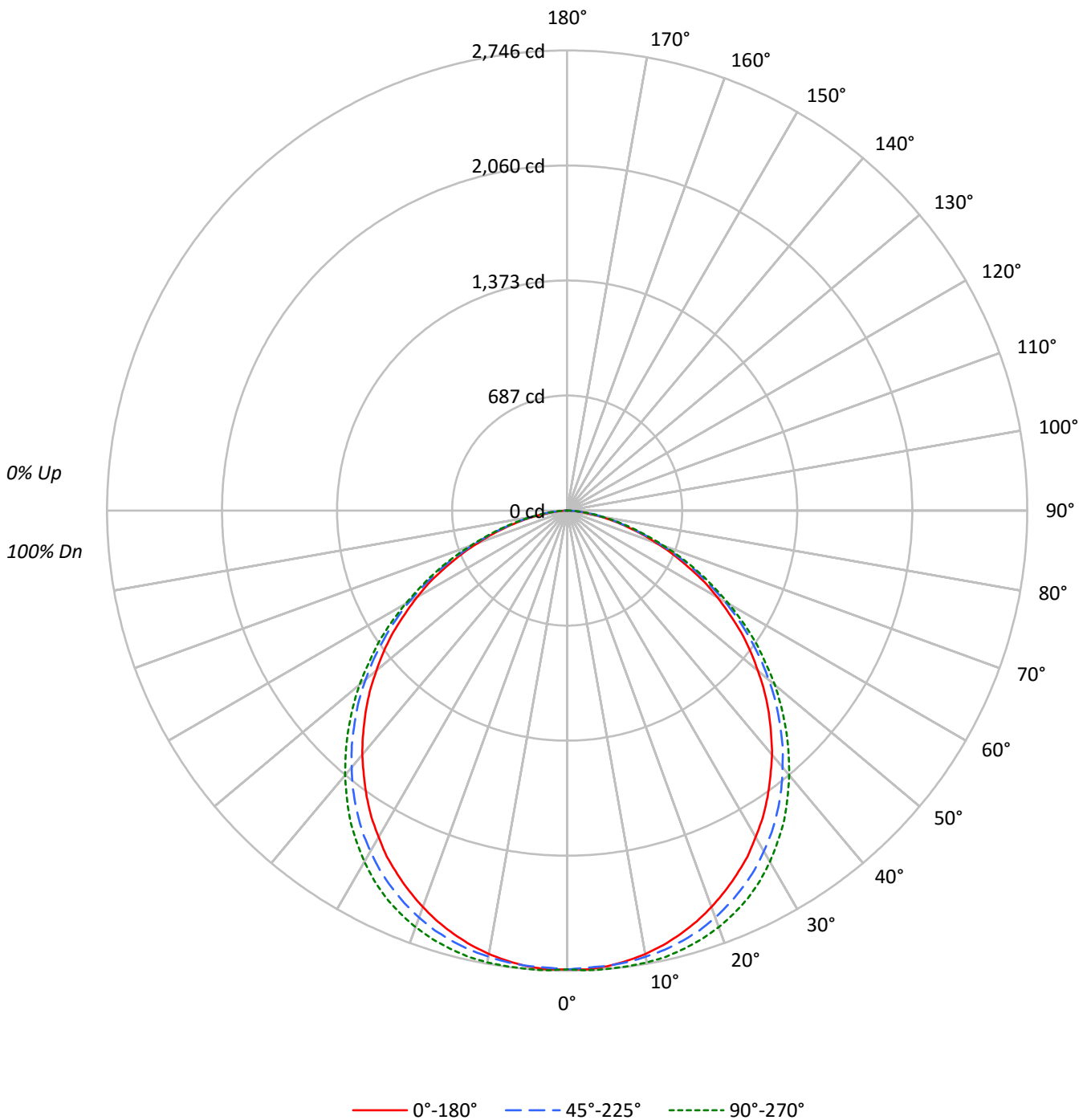
Input Watts (W): 61
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3684	3684	3684
5°	3687	3683	3709
10°	3672	3694	3741
15°	3644	3703	3769
20°	3605	3700	3787
25°	3556	3683	3789
30°	3495	3648	3759
35°	3425	3595	3708
40°	3341	3513	3620
45°	3236	3412	3514
50°	3110	3287	3387
55°	2975	3124	3224
60°	2784	2927	2998
65°	2542	2677	2745
70°	2233	2348	2411
75°	1890	1986	2055
80°	1501	1644	1685
85°	1024	1229	1187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	3.5
10°-20°	751.0	10.1
20°-30°	1141.3	15.4
30°-40°	1361.9	18.4
40°-50°	1375.5	18.6
50°-60°	1185.1	16.0
60°-70°	826.1	11.2
70°-80°	409.4	5.5
80°-90°	95.5	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°	2152.5	29.1
0°-40°	3514.4	47.5
0°-60°	6075.0	82.0
0°-90°	7406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2730	2727	2727	2740	2746	259
15°	2616	2629	2658	2693	2706	738
25°	2396	2427	2480	2531	2552	1104
35°	2085	2120	2189	2239	2258	1303
45°	1700	1738	1793	1836	1846	1311
55°	1268	1295	1332	1364	1374	1130
65°	798	814	841	849	862	793
75°	364	369	382	390	395	392
85°	66	80	80	74	77	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2737.8	2737.8	2737.8	2737.8	2737.8
2.5°	2740.5	2735.2	2729.9	2740.5	2745.8
5°	2729.9	2727.2	2727.2	2740.5	2745.8
7.5°	2711.3	2711.3	2719.3	2737.8	2743.1
10°	2687.4	2692.7	2703.4	2729.9	2737.8
12.5°	2655.6	2666.2	2684.8	2716.6	2727.2
15°	2615.8	2629.1	2658.3	2692.7	2706.0
17.5°	2570.7	2589.3	2626.4	2666.2	2679.5
20°	2517.6	2541.5	2584.0	2629.1	2645.0
22.5°	2459.3	2488.5	2536.2	2584.0	2602.5
25°	2395.6	2427.4	2480.5	2530.9	2552.1
27.5°	2329.3	2361.1	2419.5	2469.9	2491.1
30°	2249.7	2286.8	2347.9	2400.9	2419.5
32.5°	2172.8	2209.9	2273.6	2321.3	2339.9
35°	2085.2	2119.7	2188.7	2239.1	2257.7
37.5°	1992.4	2032.2	2098.5	2143.6	2159.5
40°	1902.2	1936.7	2000.3	2045.4	2061.3
42.5°	1801.4	1838.5	1902.2	1942.0	1955.2
45°	1700.5	1737.7	1793.4	1835.8	1846.5
47.5°	1597.1	1631.6	1687.3	1721.8	1732.4
50°	1485.7	1517.5	1570.5	1605.0	1618.3
52.5°	1379.5	1408.7	1453.8	1483.0	1491.0
55°	1268.1	1294.6	1331.8	1363.6	1374.2
57.5°	1148.7	1177.9	1212.4	1238.9	1246.9
60°	1034.6	1058.5	1087.7	1111.6	1114.2
62.5°	923.2	933.8	960.4	981.6	984.2
65°	798.5	814.5	841.0	848.9	862.2
67.5°	684.5	695.1	716.3	726.9	737.5
70°	567.7	575.7	596.9	610.2	612.8
72.5°	466.9	469.6	485.5	496.1	498.8
75°	363.5	368.8	382.0	390.0	395.3
77.5°	275.9	281.2	291.8	297.1	297.1
80°	193.7	201.6	212.2	214.9	217.5
82.5°	124.7	135.3	143.3	145.9	140.6
85°	66.3	79.6	79.6	74.3	76.9
87.5°	23.9	29.2	31.8	34.5	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)