

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: P297128

Luminaire Tested: **D3X-WG-80L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297128
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-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7926.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

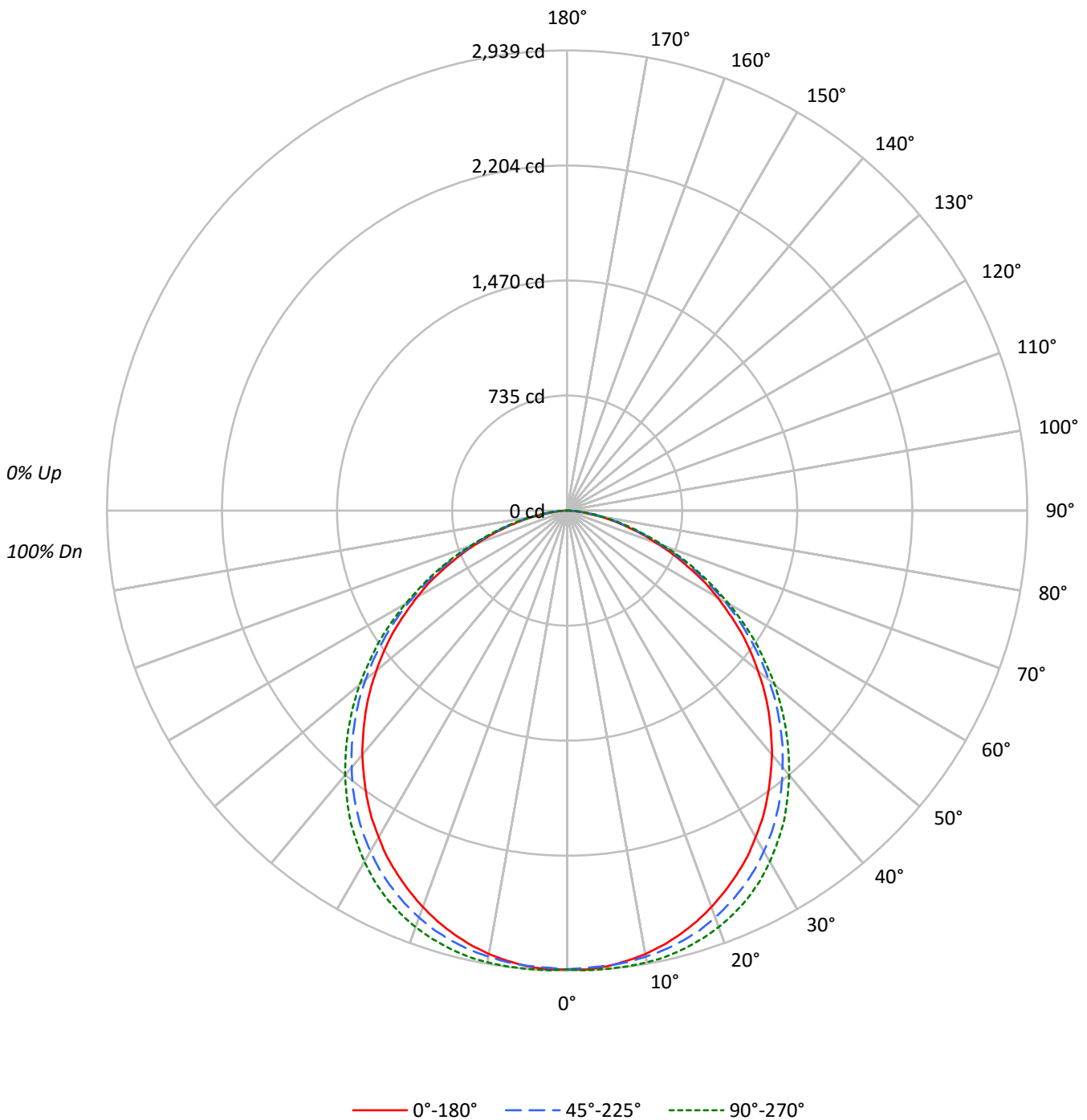
Input Watts (W): 63.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3942	3942	3942
5°	3946	3942	3969
10°	3929	3953	4003
15°	3900	3963	4034
20°	3858	3960	4053
25°	3806	3941	4055
30°	3741	3904	4023
35°	3665	3847	3969
40°	3576	3760	3875
45°	3463	3652	3760
50°	3328	3518	3625
55°	3183	3343	3450
60°	2980	3133	3209
65°	2721	2865	2938
70°	2390	2513	2580
75°	2022	2125	2199
80°	1606	1760	1804
85°	1096	1315	1271



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	3.5
10°-20°	803.8	10.1
20°-30°	1221.5	15.4
30°-40°	1457.5	18.4
40°-50°	1472.1	18.6
50°-60°	1268.3	16.0
60°-70°	884.1	11.2
70°-80°	438.2	5.5
80°-90°	102.2	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°	2303.7	29.1
0°-40°	3761.2	47.5
0°-60°	6501.5	82.0
0°-90°	7926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2930	2930	2930	2930	2930	
5°	2922	2919	2919	2933	2939	277
15°	2800	2814	2845	2882	2896	790
25°	2564	2598	2655	2709	2731	1181
35°	2232	2268	2342	2396	2416	1395
45°	1820	1860	1919	1965	1976	1403
55°	1357	1386	1425	1459	1471	1210
65°	855	872	900	909	923	849
75°	389	395	409	417	423	419
85°	71	85	85	80	82	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2930.1	2930.1	2930.1	2930.1	2930.1
2.5°	2932.9	2927.2	2921.6	2932.9	2938.6
5°	2921.6	2918.7	2918.7	2932.9	2938.6
7.5°	2901.7	2901.7	2910.2	2930.1	2935.8
10°	2876.1	2881.8	2893.2	2921.6	2930.1
12.5°	2842.1	2853.4	2873.3	2907.4	2918.7
15°	2799.5	2813.7	2844.9	2881.8	2896.0
17.5°	2751.2	2771.1	2810.8	2853.4	2867.6
20°	2694.4	2720.0	2765.4	2813.7	2830.7
22.5°	2632.0	2663.2	2714.3	2765.4	2785.3
25°	2563.8	2597.9	2654.7	2708.6	2731.3
27.5°	2492.8	2526.9	2589.4	2643.3	2666.0
30°	2407.7	2447.4	2512.7	2569.5	2589.4
32.5°	2325.3	2365.1	2433.2	2484.3	2504.2
35°	2231.6	2268.5	2342.4	2396.3	2416.2
37.5°	2132.3	2174.8	2245.8	2294.1	2311.1
40°	2035.7	2072.6	2140.8	2189.0	2206.1
42.5°	1927.8	1967.6	2035.7	2078.3	2092.5
45°	1819.9	1859.7	1919.3	1964.7	1976.1
47.5°	1709.2	1746.1	1805.7	1842.7	1854.0
50°	1590.0	1624.0	1680.8	1717.7	1731.9
52.5°	1476.4	1507.6	1555.9	1587.1	1595.6
55°	1357.1	1385.5	1425.3	1459.4	1470.7
57.5°	1229.4	1260.6	1297.5	1325.9	1334.4
60°	1107.3	1132.8	1164.1	1189.6	1192.5
62.5°	988.0	999.4	1027.8	1050.5	1053.4
65°	854.6	871.6	900.0	908.6	922.7
67.5°	732.5	743.9	766.6	777.9	789.3
70°	607.6	616.1	638.8	653.0	655.9
72.5°	499.7	502.5	519.6	530.9	533.8
75°	389.0	394.7	408.8	417.4	423.0
77.5°	295.3	301.0	312.3	318.0	318.0
80°	207.3	215.8	227.1	230.0	232.8
82.5°	133.4	144.8	153.3	156.2	150.5
85°	71.0	85.2	85.2	79.5	82.3
87.5°	25.6	31.2	34.1	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)