

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: P297360

Luminaire Tested: **D3X-WO-50L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-50L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5139.0 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

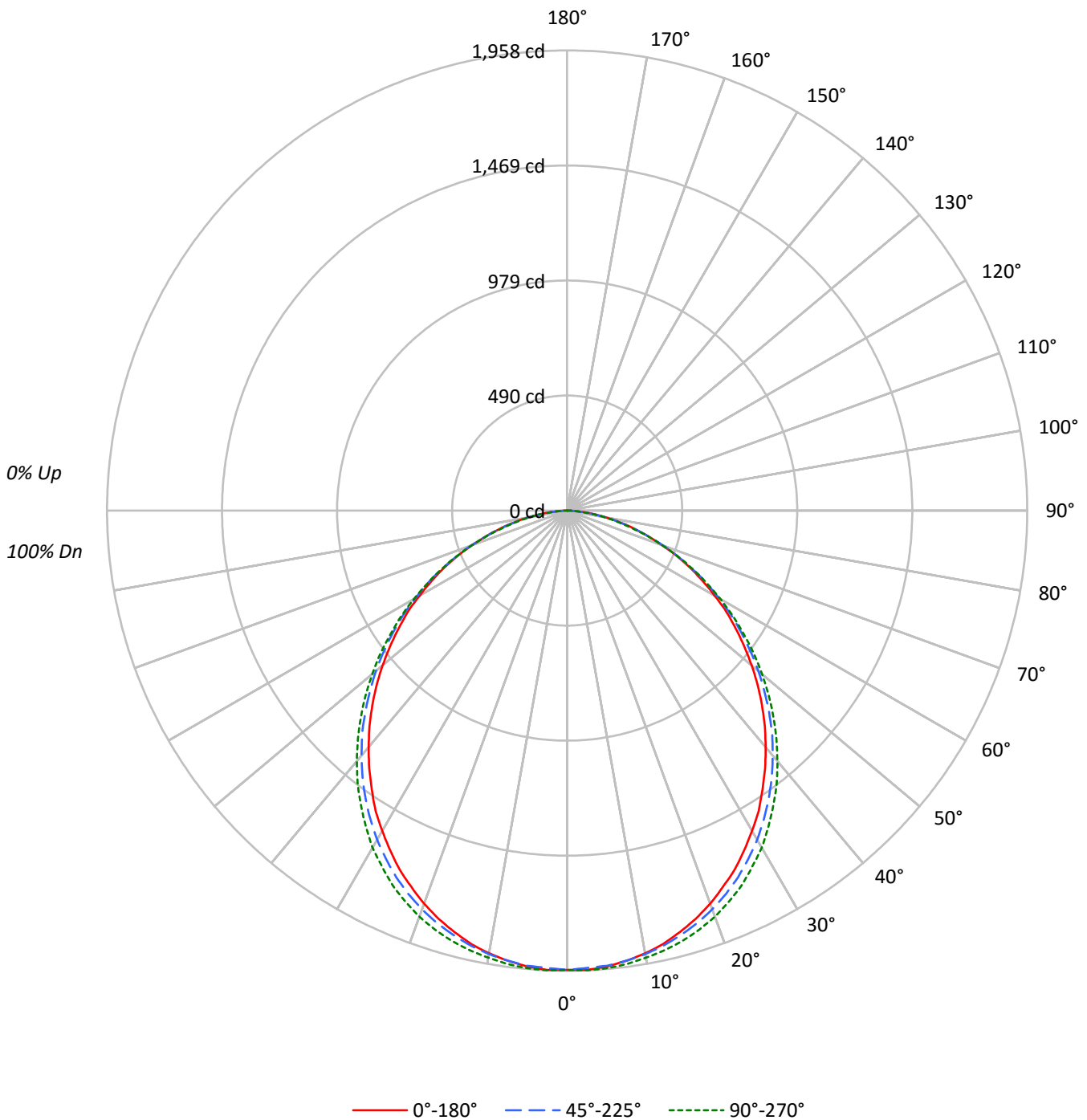
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52																												
5	77	64	55	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	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2630	2630	2630
5°	2630	2626	2640
10°	2613	2618	2640
15°	2585	2604	2640
20°	2548	2585	2632
25°	2503	2555	2611
30°	2445	2512	2574
35°	2380	2457	2514
40°	2308	2390	2445
45°	2230	2312	2362
50°	2145	2225	2265
55°	2055	2120	2152
60°	1952	2003	2026
65°	1841	1869	1879
70°	1689	1709	1689
75°	1521	1512	1467
80°	1288	1275	1234
85°	962	936	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	3.6
10°-20°	528.6	10.3
20°-30°	792.6	15.4
30°-40°	933.4	18.2
40°-50°	933.5	18.2
50°-60°	805.5	15.7
60°-70°	579.6	11.3
70°-80°	307.4	6.0
80°-90°	73.3	1.4
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°	1506.2	29.3
0°-40°	2439.6	47.5
0°-60°	4178.7	81.3
0°-90°	5139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1948	1946	1944	1951	1954	185
15°	1856	1861	1870	1889	1896	523
25°	1686	1696	1721	1750	1759	776
35°	1449	1466	1496	1522	1530	906
45°	1172	1188	1215	1236	1241	904
55°	876	885	904	919	918	784
65°	578	580	587	590	590	572
75°	293	289	291	284	282	311
85°	62	62	61	55	54	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.5	1954.5	1954.5	1954.5	1954.5
2.5°	1956.2	1952.7	1947.5	1954.5	1957.9
5°	1947.5	1945.8	1944.1	1951.0	1954.5
7.5°	1932.0	1933.7	1932.0	1942.3	1945.8
10°	1912.9	1914.6	1916.4	1928.5	1932.0
12.5°	1888.7	1890.4	1895.6	1911.2	1916.4
15°	1855.8	1861.0	1869.6	1888.7	1895.6
17.5°	1821.2	1828.1	1840.2	1862.7	1869.6
20°	1779.6	1788.3	1805.6	1829.8	1838.5
22.5°	1732.9	1741.5	1765.8	1791.7	1800.4
25°	1686.1	1696.5	1720.8	1750.2	1758.8
27.5°	1630.7	1644.6	1670.5	1700.0	1706.9
30°	1573.6	1585.7	1616.9	1644.6	1656.7
32.5°	1516.5	1528.6	1558.0	1585.7	1594.4
35°	1449.0	1466.3	1495.7	1521.7	1530.3
37.5°	1383.2	1398.8	1429.9	1455.9	1464.5
40°	1313.9	1327.8	1360.7	1384.9	1391.8
42.5°	1244.7	1258.5	1291.4	1310.5	1317.4
45°	1172.0	1187.6	1215.3	1236.0	1241.2
47.5°	1099.3	1111.4	1137.4	1156.4	1163.3
50°	1024.8	1037.0	1062.9	1078.5	1082.0
52.5°	950.4	959.1	983.3	997.1	1002.3
55°	876.0	884.6	903.7	919.2	917.5
57.5°	805.0	808.4	827.5	837.9	837.9
60°	725.3	728.8	744.4	751.3	753.0
62.5°	650.9	656.1	668.2	670.0	670.0
65°	578.2	579.9	586.9	590.3	590.3
67.5°	505.5	503.8	510.7	510.7	509.0
70°	429.3	432.8	434.5	431.1	429.3
72.5°	360.1	358.3	358.3	356.6	356.6
75°	292.6	289.1	290.8	283.9	282.2
77.5°	230.2	225.0	223.3	219.9	216.4
80°	166.2	166.2	164.5	161.0	159.3
82.5°	110.8	110.8	109.1	105.6	102.1
85°	62.3	62.3	60.6	55.4	53.7
87.5°	20.8	20.8	20.8	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)