

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: P296941

Luminaire Tested: **D3X-WD-50L92765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296941
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-50L92765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4398.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

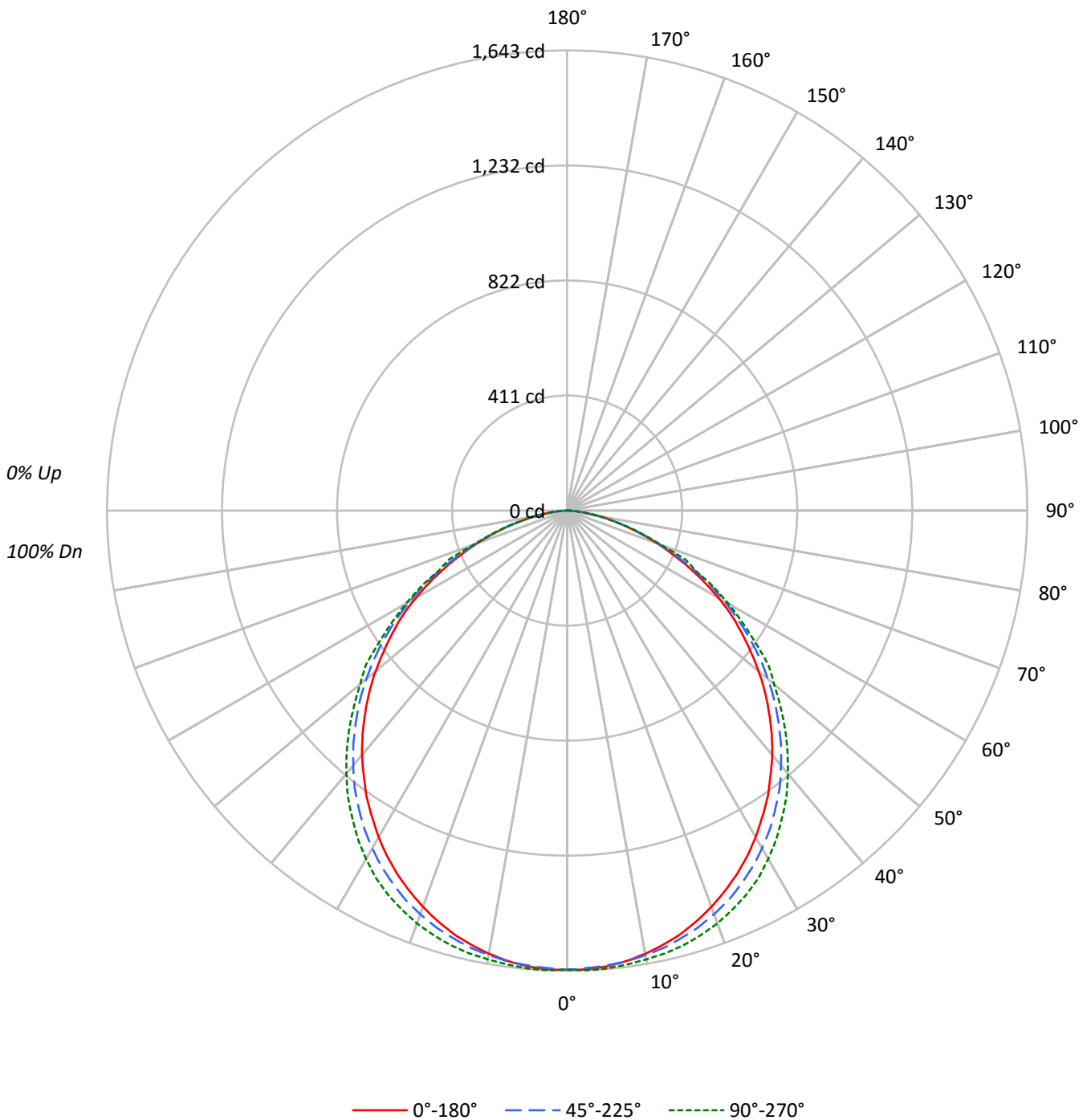
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2206	2206	2206
5°	2206	2202	2217
10°	2195	2201	2223
15°	2181	2200	2238
20°	2155	2196	2246
25°	2127	2183	2247
30°	2091	2162	2231
35°	2050	2131	2198
40°	2001	2087	2154
45°	1940	2030	2093
50°	1869	1959	2018
55°	1784	1866	1921
60°	1682	1745	1788
65°	1527	1578	1608
70°	1341	1372	1391
75°	1132	1148	1157
80°	905	917	893
85°	610	633	610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	3.5
10°-20°	446.8	10.2
20°-30°	678.0	15.4
30°-40°	809.4	18.4
40°-50°	819.4	18.6
50°-60°	708.3	16.1
60°-70°	490.9	11.2
70°-80°	237.5	5.4
80°-90°	52.2	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°	1280.2	29.1
0°-40°	2089.6	47.5
0°-60°	3617.3	82.2
0°-90°	4398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4398.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1640	1640	1640	1640	1640	
5°	1633	1632	1630	1638	1641	155
15°	1565	1568	1580	1598	1606	441
25°	1433	1442	1471	1501	1513	660
35°	1248	1259	1297	1330	1338	780
45°	1019	1034	1067	1094	1100	786
55°	761	768	795	828	819	680
65°	480	484	496	503	505	475
75°	218	219	221	219	222	234
85°	40	43	41	40	40	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.5	1639.5	1639.5	1639.5	1639.5
2.5°	1639.5	1638.0	1634.8	1639.5	1642.7
5°	1633.2	1631.7	1630.1	1638.0	1641.1
7.5°	1622.2	1622.2	1623.8	1631.7	1634.8
10°	1606.4	1608.0	1611.1	1623.8	1626.9
12.5°	1587.5	1590.6	1598.5	1612.7	1619.0
15°	1565.4	1568.5	1579.6	1598.5	1606.4
17.5°	1537.0	1543.3	1559.1	1581.2	1589.0
20°	1505.4	1513.3	1533.8	1559.1	1568.5
22.5°	1470.7	1478.6	1505.4	1532.2	1541.7
25°	1432.8	1442.3	1470.7	1500.7	1513.3
27.5°	1391.8	1402.8	1434.4	1466.0	1478.6
30°	1346.0	1358.7	1391.8	1424.9	1436.0
32.5°	1297.1	1309.7	1347.6	1379.2	1390.2
35°	1248.2	1259.2	1297.1	1330.3	1338.1
37.5°	1193.0	1205.6	1246.6	1275.0	1286.1
40°	1139.3	1151.9	1188.2	1216.6	1226.1
42.5°	1080.9	1093.6	1129.8	1156.7	1164.6
45°	1019.4	1033.6	1066.7	1093.6	1099.9
47.5°	957.8	968.9	1003.6	1027.3	1032.0
50°	893.1	904.2	935.8	959.4	964.2
52.5°	825.3	842.7	867.9	885.3	905.8
55°	760.6	768.5	795.3	828.5	819.0
57.5°	695.9	700.6	722.7	736.9	740.1
60°	624.9	631.2	648.6	656.4	664.3
62.5°	550.7	555.5	576.0	583.9	587.0
65°	479.7	484.4	495.5	503.4	505.0
67.5°	407.1	411.9	421.3	427.6	456.0
70°	340.8	344.0	348.7	361.4	353.5
72.5°	277.7	279.3	284.0	284.0	285.6
75°	217.8	219.3	220.9	219.3	222.5
77.5°	162.5	165.7	167.3	165.7	164.1
80°	116.8	119.9	118.4	115.2	115.2
82.5°	75.7	77.3	75.7	74.2	74.2
85°	39.5	42.6	41.0	39.5	39.5
87.5°	14.2	15.8	17.4	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)