

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: P297072

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297072
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-45L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

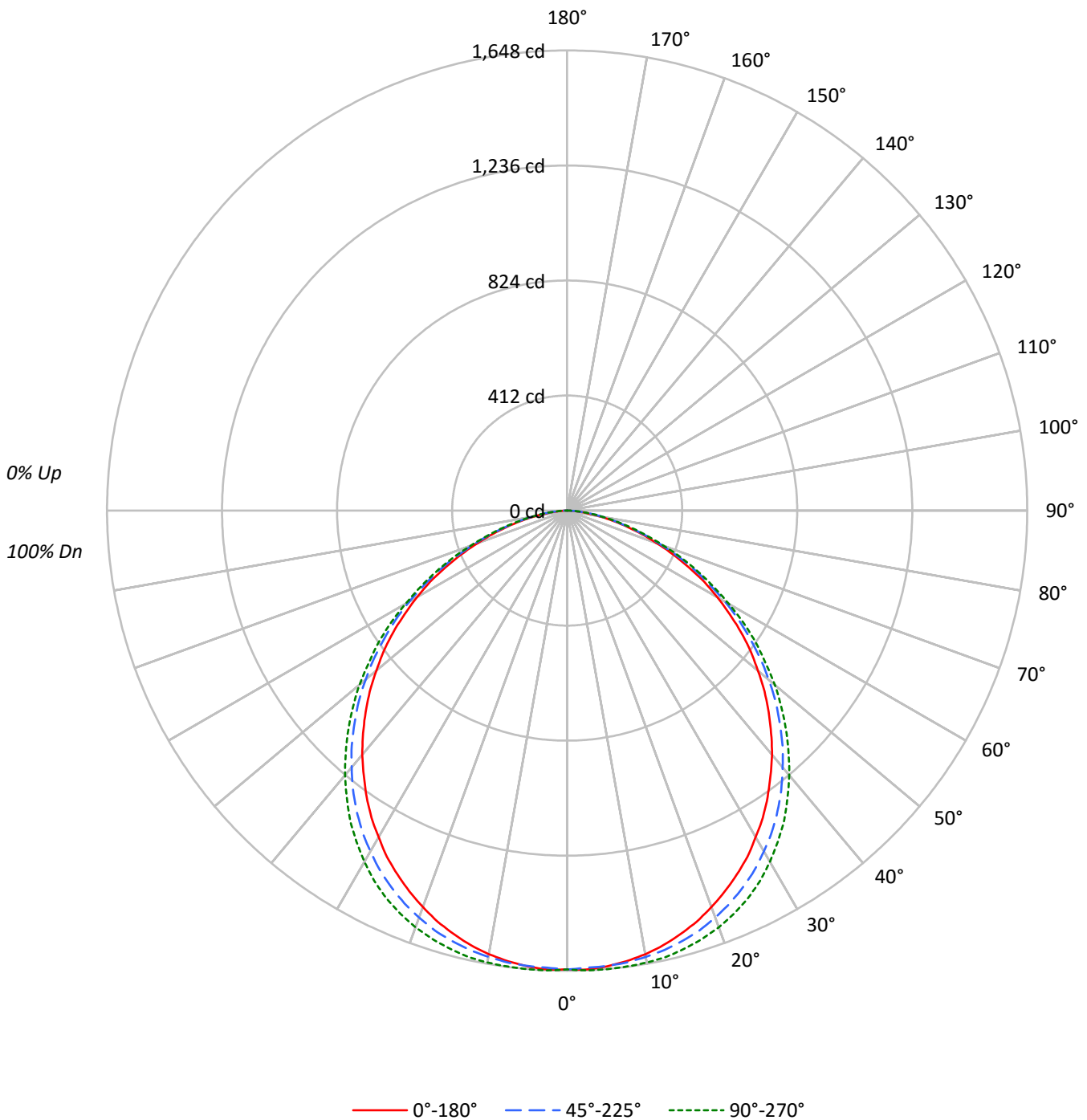
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2211	2211	2211
5°	2213	2211	2226
10°	2204	2217	2246
15°	2187	2223	2263
20°	2164	2221	2274
25°	2135	2211	2275
30°	2098	2190	2257
35°	2056	2158	2226
40°	2006	2109	2174
45°	1943	2049	2109
50°	1867	1973	2034
55°	1786	1875	1935
60°	1671	1757	1800
65°	1526	1607	1648
70°	1341	1410	1447
75°	1134	1192	1234
80°	901	987	1012
85°	614	738	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	3.5
10°-20°	450.9	10.1
20°-30°	685.2	15.4
30°-40°	817.6	18.4
40°-50°	825.7	18.6
50°-60°	711.4	16.0
60°-70°	495.9	11.2
70°-80°	245.8	5.5
80°-90°	57.3	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°	1292.2	29.1
0°-40°	2109.8	47.5
0°-60°	3647.0	82.0
0°-90°	4446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1639	1637	1637	1645	1648	156
15°	1570	1578	1596	1616	1624	443
25°	1438	1457	1489	1519	1532	662
35°	1252	1272	1314	1344	1355	782
45°	1021	1043	1077	1102	1108	787
55°	761	777	800	819	825	679
65°	479	489	505	510	518	476
75°	218	221	229	234	237	235
85°	40	48	48	45	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1645.2	1642.0	1638.8	1645.2	1648.4
5°	1638.8	1637.2	1637.2	1645.2	1648.4
7.5°	1627.7	1627.7	1632.4	1643.6	1646.8
10°	1613.3	1616.5	1622.9	1638.8	1643.6
12.5°	1594.2	1600.6	1611.7	1630.9	1637.2
15°	1570.3	1578.3	1595.8	1616.5	1624.5
17.5°	1543.3	1554.4	1576.7	1600.6	1608.6
20°	1511.4	1525.7	1551.2	1578.3	1587.9
22.5°	1476.4	1493.9	1522.6	1551.2	1562.4
25°	1438.1	1457.3	1489.1	1519.4	1532.1
27.5°	1398.3	1417.4	1452.5	1482.7	1495.5
30°	1350.5	1372.8	1409.5	1441.3	1452.5
32.5°	1304.4	1326.7	1364.9	1393.5	1404.7
35°	1251.8	1272.5	1313.9	1344.2	1355.3
37.5°	1196.1	1220.0	1259.8	1286.8	1296.4
40°	1141.9	1162.6	1200.8	1227.9	1237.5
42.5°	1081.4	1103.7	1141.9	1165.8	1173.8
45°	1020.9	1043.2	1076.6	1102.1	1108.5
47.5°	958.8	979.5	1012.9	1033.6	1040.0
50°	891.9	911.0	942.8	963.5	971.5
52.5°	828.2	845.7	872.8	890.3	895.1
55°	761.3	777.2	799.5	818.6	825.0
57.5°	689.6	707.1	727.8	743.8	748.5
60°	621.1	635.5	653.0	667.3	668.9
62.5°	554.2	560.6	576.5	589.3	590.9
65°	479.4	488.9	504.9	509.6	517.6
67.5°	410.9	417.3	430.0	436.4	442.8
70°	340.8	345.6	358.3	366.3	367.9
72.5°	280.3	281.9	291.5	297.8	299.4
75°	218.2	221.4	229.3	234.1	237.3
77.5°	165.6	168.8	175.2	178.4	178.4
80°	116.3	121.0	127.4	129.0	130.6
82.5°	74.9	81.2	86.0	87.6	84.4
85°	39.8	47.8	47.8	44.6	46.2
87.5°	14.3	17.5	19.1	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)