

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: P296795

Luminaire Tested: **D3X-WD-50L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296795
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-50L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4299.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

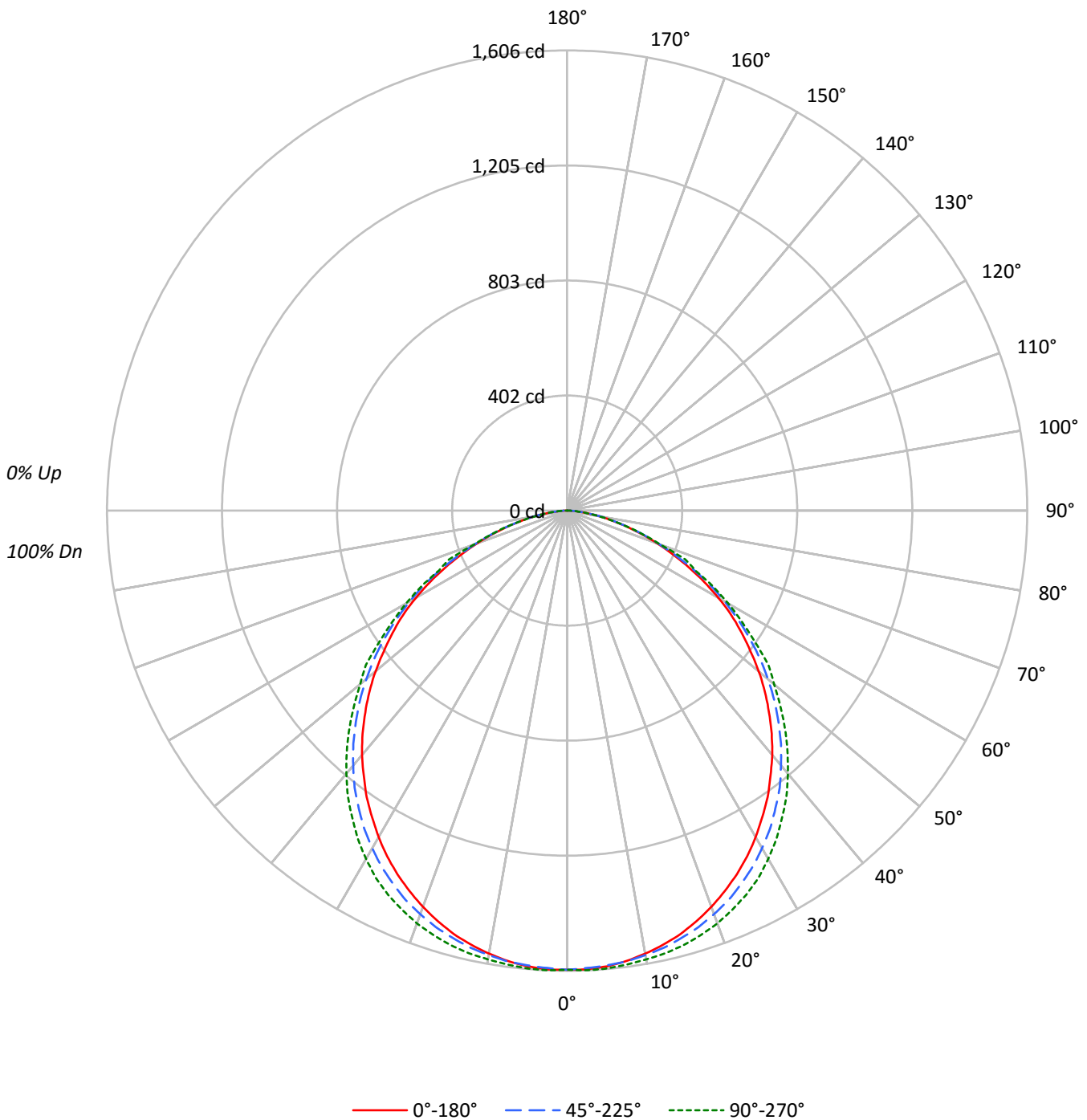
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2156	2156	2156
5°	2156	2152	2167
10°	2145	2152	2173
15°	2131	2151	2187
20°	2107	2147	2195
25°	2079	2134	2196
30°	2044	2114	2181
35°	2004	2083	2148
40°	1956	2040	2105
45°	1896	1984	2046
50°	1827	1915	1973
55°	1744	1824	1878
60°	1644	1706	1748
65°	1493	1542	1571
70°	1311	1341	1359
75°	1107	1122	1131
80°	884	896	872
85°	596	619	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.5
10°-20°	436.8	10.2
20°-30°	662.7	15.4
30°-40°	791.2	18.4
40°-50°	801.0	18.6
50°-60°	692.4	16.1
60°-70°	479.9	11.2
70°-80°	232.2	5.4
80°-90°	51.0	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°	1251.4	29.1
0°-40°	2042.5	47.5
0°-60°	3535.9	82.2
0°-90°	4299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1596	1595	1593	1601	1604	152
15°	1530	1533	1544	1562	1570	431
25°	1401	1410	1438	1467	1479	645
35°	1220	1231	1268	1300	1308	762
45°	996	1010	1043	1069	1075	769
55°	744	751	777	810	800	664
65°	469	474	484	492	494	464
75°	213	214	216	214	218	228
85°	39	42	40	39	39	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.6	1602.6	1602.6	1602.6	1602.6
2.5°	1602.6	1601.1	1598.0	1602.6	1605.7
5°	1596.5	1594.9	1593.4	1601.1	1604.2
7.5°	1585.7	1585.7	1587.2	1594.9	1598.0
10°	1570.2	1571.8	1574.9	1587.2	1590.3
12.5°	1551.7	1554.8	1562.5	1576.4	1582.6
15°	1530.1	1533.2	1544.0	1562.5	1570.2
17.5°	1502.4	1508.5	1524.0	1545.6	1553.3
20°	1471.5	1479.2	1499.3	1524.0	1533.2
22.5°	1437.6	1445.3	1471.5	1497.7	1507.0
25°	1400.6	1409.8	1437.6	1466.9	1479.2
27.5°	1360.5	1371.3	1402.1	1433.0	1445.3
30°	1315.7	1328.1	1360.5	1392.9	1403.7
32.5°	1267.9	1280.3	1317.3	1348.1	1358.9
35°	1220.1	1230.9	1267.9	1300.3	1308.0
37.5°	1166.1	1178.5	1218.6	1246.3	1257.1
40°	1113.7	1126.0	1161.5	1189.3	1198.5
42.5°	1056.6	1068.9	1104.4	1130.6	1138.4
45°	996.4	1010.3	1042.7	1068.9	1075.1
47.5°	936.3	947.1	981.0	1004.2	1008.8
50°	873.0	883.8	914.7	937.8	942.5
52.5°	806.7	823.7	848.4	865.3	885.4
55°	743.5	751.2	777.4	809.8	800.5
57.5°	680.2	684.9	706.5	720.3	723.4
60°	610.8	617.0	634.0	641.7	649.4
62.5°	538.3	543.0	563.0	570.7	573.8
65°	468.9	473.5	484.3	492.1	493.6
67.5°	398.0	402.6	411.8	418.0	445.8
70°	333.2	336.3	340.9	353.2	345.5
72.5°	271.5	273.0	277.6	277.6	279.2
75°	212.9	214.4	215.9	214.4	217.5
77.5°	158.9	162.0	163.5	162.0	160.4
80°	114.1	117.2	115.7	112.6	112.6
82.5°	74.0	75.6	74.0	72.5	72.5
85°	38.6	41.6	40.1	38.6	38.6
87.5°	13.9	15.4	17.0	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)