

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: P296786

Luminaire Tested: **D3X-WD-45L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296786
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-45L82765-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: 3917.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

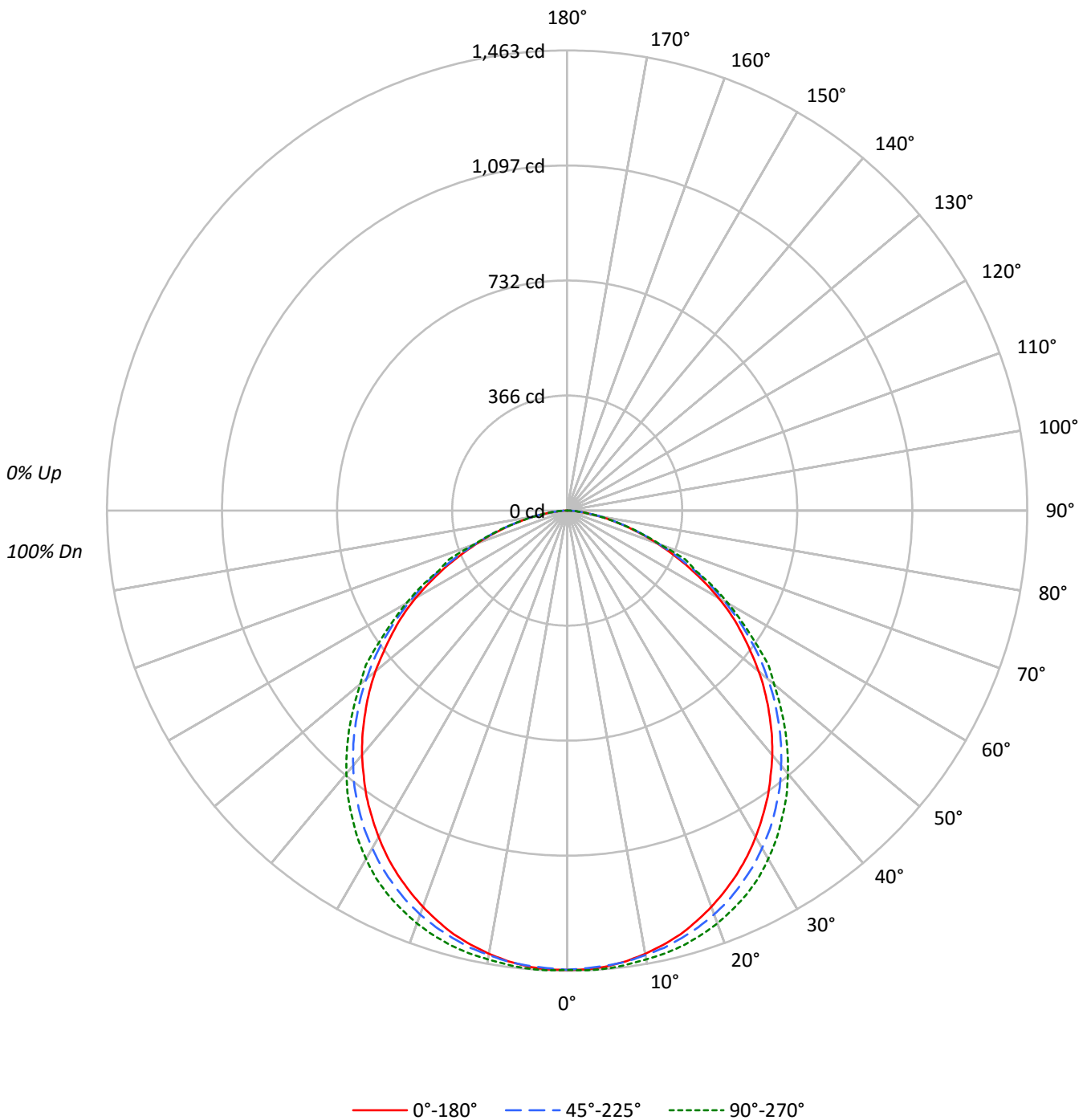
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1965	1965	1965
5°	1965	1961	1974
10°	1955	1960	1980
15°	1942	1960	1993
20°	1920	1956	2000
25°	1894	1945	2001
30°	1863	1926	1987
35°	1826	1898	1958
40°	1782	1859	1918
45°	1728	1808	1864
50°	1665	1744	1797
55°	1589	1662	1711
60°	1498	1554	1592
65°	1360	1405	1432
70°	1194	1222	1238
75°	1008	1023	1030
80°	806	817	795
85°	542	563	542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.5
10°-20°	398.0	10.2
20°-30°	603.8	15.4
30°-40°	720.9	18.4
40°-50°	729.8	18.6
50°-60°	630.8	16.1
60°-70°	437.2	11.2
70°-80°	211.6	5.4
80°-90°	46.5	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°	1140.2	29.1
0°-40°	1861.1	47.5
0°-60°	3221.7	82.2
0°-90°	3917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1455	1453	1452	1459	1462	138
15°	1394	1397	1407	1424	1431	393
25°	1276	1285	1310	1337	1348	588
35°	1112	1122	1155	1185	1192	694
45°	908	920	950	974	980	700
55°	677	684	708	738	729	605
65°	427	432	441	448	450	423
75°	194	195	197	195	198	208
85°	35	38	36	35	35	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.2	1460.2	1460.2	1460.2	1460.2
2.5°	1460.2	1458.8	1456.0	1460.2	1463.0
5°	1454.6	1453.2	1451.8	1458.8	1461.6
7.5°	1444.8	1444.8	1446.2	1453.2	1456.0
10°	1430.7	1432.1	1434.9	1446.2	1449.0
12.5°	1413.9	1416.7	1423.7	1436.3	1442.0
15°	1394.2	1397.0	1406.8	1423.7	1430.7
17.5°	1368.9	1374.5	1388.6	1408.2	1415.3
20°	1340.8	1347.8	1366.1	1388.6	1397.0
22.5°	1309.8	1316.9	1340.8	1364.7	1373.1
25°	1276.1	1284.6	1309.8	1336.6	1347.8
27.5°	1239.6	1249.4	1277.5	1305.6	1316.9
30°	1198.8	1210.1	1239.6	1269.1	1278.9
32.5°	1155.3	1166.5	1200.2	1228.3	1238.2
35°	1111.7	1121.5	1155.3	1184.8	1191.8
37.5°	1062.5	1073.7	1110.3	1135.6	1145.4
40°	1014.7	1026.0	1058.3	1083.6	1092.0
42.5°	962.7	974.0	1006.3	1030.2	1037.2
45°	907.9	920.5	950.1	974.0	979.6
47.5°	853.1	862.9	893.8	914.9	919.1
50°	795.5	805.3	833.4	854.5	858.7
52.5°	735.0	750.5	773.0	788.4	806.7
55°	677.4	684.4	708.3	737.8	729.4
57.5°	619.8	624.0	643.7	656.3	659.1
60°	556.5	562.2	577.6	584.7	591.7
62.5°	490.5	494.7	513.0	520.0	522.8
65°	427.2	431.5	441.3	448.3	449.7
67.5°	362.6	366.8	375.2	380.9	406.2
70°	303.6	306.4	310.6	321.8	314.8
72.5°	247.4	248.8	253.0	253.0	254.4
75°	193.9	195.4	196.8	195.4	198.2
77.5°	144.8	147.6	149.0	147.6	146.2
80°	104.0	106.8	105.4	102.6	102.6
82.5°	67.5	68.9	67.5	66.1	66.1
85°	35.1	37.9	36.5	35.1	35.1
87.5°	12.6	14.1	15.5	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)