

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: P296789

Luminaire Tested: **D3X-WD-45L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296789
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4261.0 lumens
Efficiency: N/A
Efficacy: 133.6 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

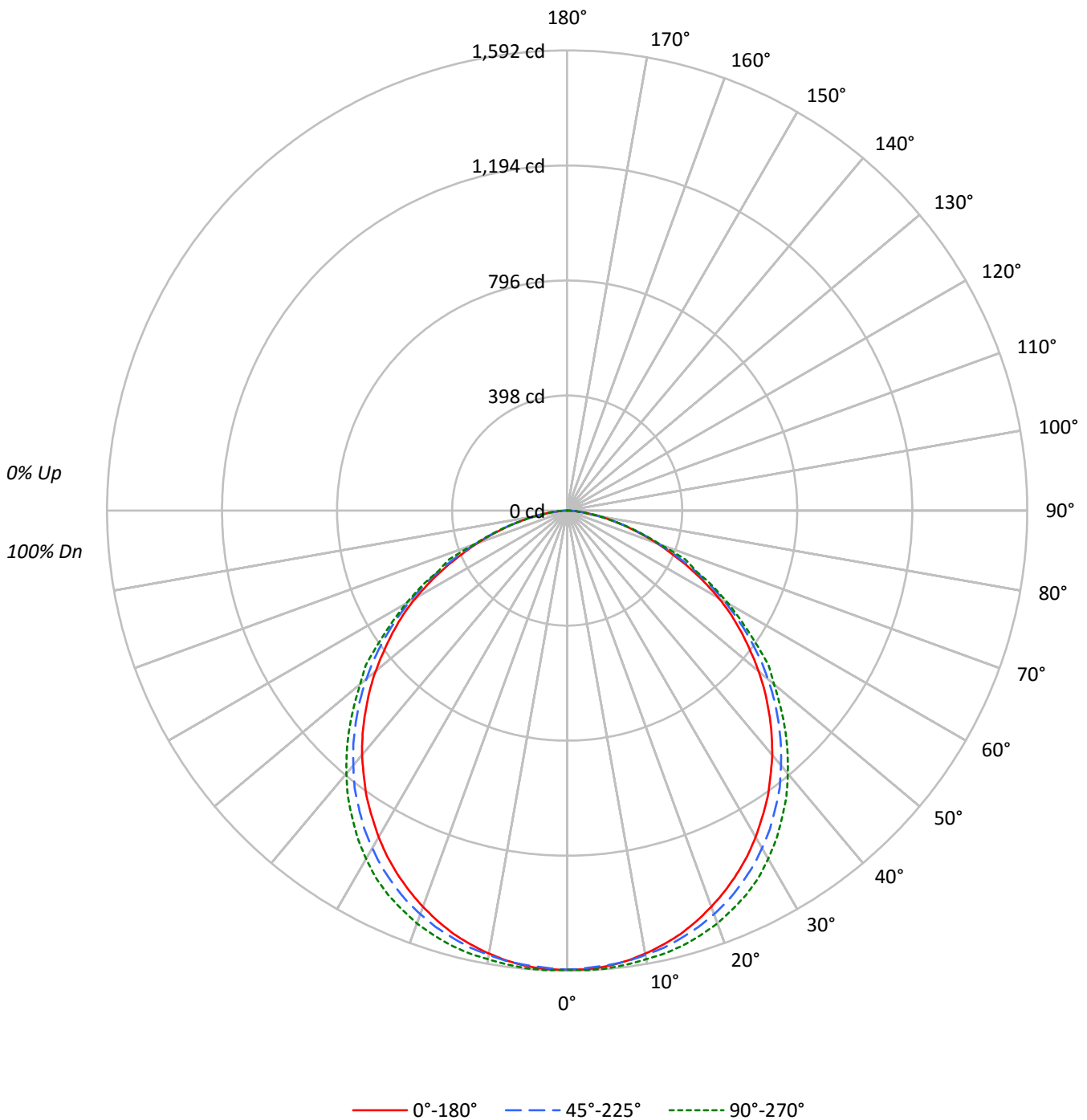
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2137	2137	2137
5°	2137	2133	2148
10°	2126	2133	2153
15°	2113	2132	2168
20°	2088	2128	2176
25°	2061	2115	2177
30°	2026	2095	2161
35°	1986	2064	2130
40°	1939	2022	2086
45°	1879	1967	2028
50°	1811	1898	1955
55°	1729	1807	1861
60°	1629	1691	1732
65°	1480	1528	1557
70°	1299	1329	1347
75°	1097	1112	1121
80°	876	889	865
85°	590	613	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.5
10°-20°	432.9	10.2
20°-30°	656.8	15.4
30°-40°	784.2	18.4
40°-50°	793.9	18.6
50°-60°	686.2	16.1
60°-70°	475.6	11.2
70°-80°	230.1	5.4
80°-90°	50.6	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°	1240.3	29.1
0°-40°	2024.5	47.5
0°-60°	3504.6	82.2
0°-90°	4261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1582	1581	1579	1587	1590	150
15°	1517	1520	1530	1549	1556	427
25°	1388	1397	1425	1454	1466	639
35°	1209	1220	1257	1289	1296	755
45°	988	1001	1034	1060	1066	762
55°	737	744	770	803	794	659
65°	465	469	480	488	489	460
75°	211	212	214	212	216	226
85°	38	41	40	38	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1588.5	1586.9	1583.9	1588.5	1591.5
5°	1582.4	1580.8	1579.3	1586.9	1590.0
7.5°	1571.7	1571.7	1573.2	1580.8	1583.9
10°	1556.4	1557.9	1561.0	1573.2	1576.2
12.5°	1538.0	1541.1	1548.7	1562.5	1568.6
15°	1516.6	1519.7	1530.4	1548.7	1556.4
17.5°	1489.1	1495.2	1510.5	1531.9	1539.5
20°	1458.5	1466.2	1486.0	1510.5	1519.7
22.5°	1424.9	1432.5	1458.5	1484.5	1493.7
25°	1388.2	1397.4	1424.9	1453.9	1466.2
27.5°	1348.4	1359.1	1389.7	1420.3	1432.5
30°	1304.1	1316.3	1348.4	1380.5	1391.2
32.5°	1256.7	1268.9	1305.6	1336.2	1346.9
35°	1209.3	1220.0	1256.7	1288.8	1296.5
37.5°	1155.8	1168.0	1207.8	1235.3	1246.0
40°	1103.8	1116.1	1151.2	1178.7	1187.9
42.5°	1047.3	1059.5	1094.7	1120.6	1128.3
45°	987.6	1001.4	1033.5	1059.5	1065.6
47.5°	928.0	938.7	972.3	995.3	999.9
50°	865.3	876.0	906.6	929.5	934.1
52.5°	799.6	816.4	840.9	857.7	877.6
55°	736.9	744.5	770.5	802.6	793.5
57.5°	674.2	678.8	700.2	714.0	717.0
60°	605.4	611.5	628.4	636.0	643.6
62.5°	533.6	538.2	558.0	565.7	568.7
65°	464.8	469.4	480.1	487.7	489.2
67.5°	394.4	399.0	408.2	414.3	441.8
70°	330.2	333.3	337.9	350.1	342.5
72.5°	269.1	270.6	275.2	275.2	276.7
75°	211.0	212.5	214.0	212.5	215.6
77.5°	157.5	160.5	162.1	160.5	159.0
80°	113.1	116.2	114.7	111.6	111.6
82.5°	73.4	74.9	73.4	71.9	71.9
85°	38.2	41.3	39.7	38.2	38.2
87.5°	13.8	15.3	16.8	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)