

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: P297425

Luminaire Tested: **D3X-WO-45L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-45L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3865.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

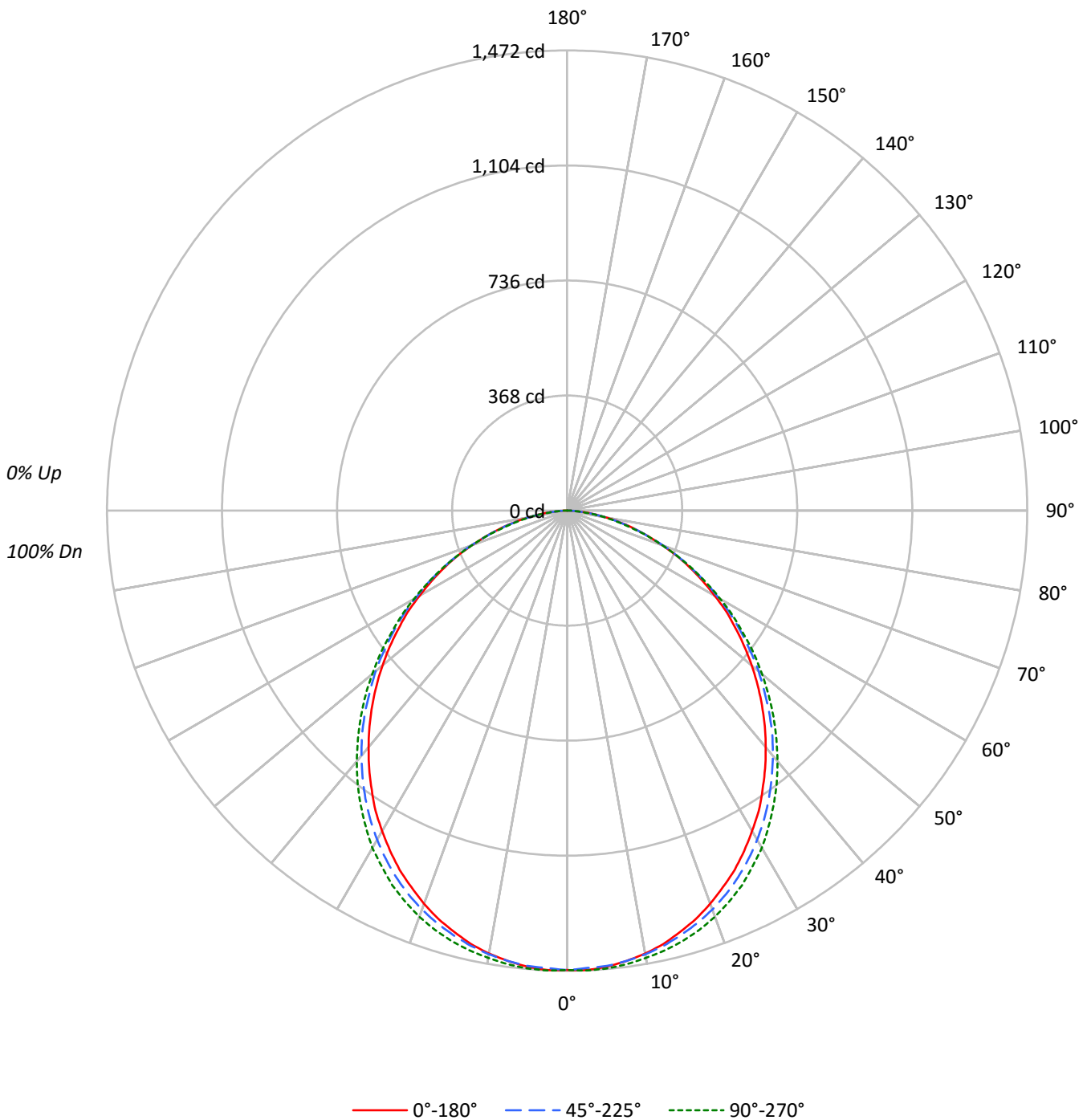
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1978	1978	1978
5°	1978	1975	1985
10°	1966	1969	1985
15°	1944	1959	1986
20°	1916	1944	1980
25°	1883	1921	1964
30°	1839	1889	1936
35°	1790	1848	1890
40°	1736	1798	1839
45°	1677	1739	1776
50°	1613	1673	1703
55°	1545	1594	1619
60°	1468	1506	1524
65°	1385	1405	1414
70°	1270	1286	1270
75°	1144	1137	1103
80°	969	958	928
85°	724	704	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	3.6
10°-20°	397.6	10.3
20°-30°	596.1	15.4
30°-40°	702.0	18.2
40°-50°	702.1	18.2
50°-60°	605.8	15.7
60°-70°	435.9	11.3
70°-80°	231.2	6.0
80°-90°	55.1	1.4
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°	1132.8	29.3
0°-40°	1834.8	47.5
0°-60°	3142.7	81.3
0°-90°	3865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1465	1463	1462	1467	1470	139
15°	1396	1400	1406	1420	1426	394
25°	1268	1276	1294	1316	1323	583
35°	1090	1103	1125	1144	1151	682
45°	881	893	914	930	934	680
55°	659	665	680	691	690	590
65°	435	436	441	444	444	430
75°	220	217	219	214	212	234
85°	47	47	46	42	40	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1471.2	1468.6	1464.7	1469.9	1472.5
5°	1464.7	1463.4	1462.1	1467.3	1469.9
7.5°	1453.0	1454.3	1453.0	1460.8	1463.4
10°	1438.7	1440.0	1441.3	1450.4	1453.0
12.5°	1420.5	1421.8	1425.7	1437.4	1441.3
15°	1395.7	1399.6	1406.1	1420.5	1425.7
17.5°	1369.7	1374.9	1384.0	1400.9	1406.1
20°	1338.4	1344.9	1358.0	1376.2	1382.7
22.5°	1303.3	1309.8	1328.0	1347.5	1354.1
25°	1268.1	1275.9	1294.2	1316.3	1322.8
27.5°	1226.5	1236.9	1256.4	1278.5	1283.7
30°	1183.5	1192.6	1216.0	1236.9	1246.0
32.5°	1140.5	1149.6	1171.8	1192.6	1199.1
35°	1089.8	1102.8	1124.9	1144.4	1150.9
37.5°	1040.3	1052.0	1075.4	1095.0	1101.5
40°	988.2	998.6	1023.4	1041.6	1046.8
42.5°	936.1	946.5	971.3	985.6	990.8
45°	881.4	893.2	914.0	929.6	933.5
47.5°	826.8	835.9	855.4	869.7	874.9
50°	770.8	779.9	799.4	811.1	813.7
52.5°	714.8	721.3	739.5	749.9	753.8
55°	658.8	665.3	679.6	691.3	690.0
57.5°	605.4	608.0	622.3	630.2	630.2
60°	545.5	548.1	559.8	565.1	566.4
62.5°	489.5	493.4	502.6	503.9	503.9
65°	434.9	436.2	441.4	444.0	444.0
67.5°	380.2	378.9	384.1	384.1	382.8
70°	322.9	325.5	326.8	324.2	322.9
72.5°	270.8	269.5	269.5	268.2	268.2
75°	220.0	217.4	218.7	213.5	212.2
77.5°	173.2	169.3	168.0	165.4	162.7
80°	125.0	125.0	123.7	121.1	119.8
82.5°	83.3	83.3	82.0	79.4	76.8
85°	46.9	46.9	45.6	41.7	40.4
87.5°	15.6	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)