

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: P297421

Luminaire Tested: **D3X-WO-42L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297421
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-42L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 129.4 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

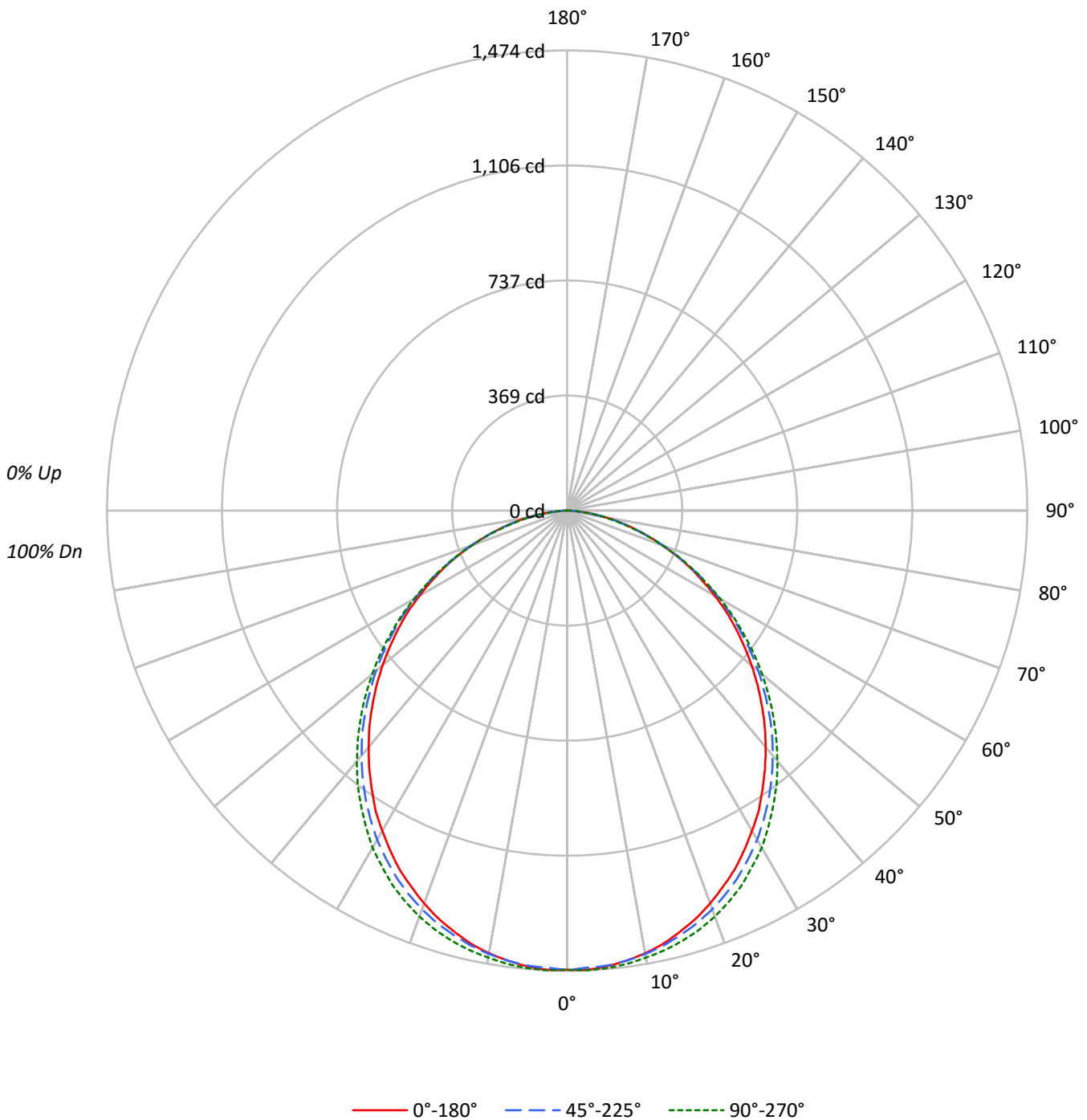
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1979	1979	1979
5°	1980	1976	1987
10°	1967	1971	1987
15°	1946	1960	1987
20°	1918	1946	1981
25°	1884	1923	1965
30°	1840	1891	1937
35°	1791	1849	1892
40°	1737	1799	1840
45°	1678	1740	1778
50°	1615	1675	1705
55°	1547	1596	1620
60°	1469	1508	1525
65°	1386	1406	1415
70°	1271	1286	1271
75°	1145	1138	1104
80°	969	959	929
85°	724	704	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.6
10°-20°	397.9	10.3
20°-30°	596.5	15.4
30°-40°	702.5	18.2
40°-50°	702.7	18.2
50°-60°	606.3	15.7
60°-70°	436.3	11.3
70°-80°	231.4	6.0
80°-90°	55.2	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°	1133.7	29.3
0°-40°	1836.2	47.5
0°-60°	3145.2	81.3
0°-90°	3868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1466	1465	1463	1468	1471	139
15°	1397	1401	1407	1422	1427	394
25°	1269	1277	1295	1317	1324	584
35°	1091	1104	1126	1145	1152	682
45°	882	894	915	930	934	680
55°	659	666	680	692	691	590
65°	435	436	442	444	444	430
75°	220	218	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°	1471.1	1471.1	1471.1	1471.1	1471.1
2.5°	1472.4	1469.8	1465.9	1471.1	1473.7
5°	1465.9	1464.6	1463.3	1468.5	1471.1
7.5°	1454.1	1455.4	1454.1	1462.0	1464.6
10°	1439.8	1441.1	1442.4	1451.5	1454.1
12.5°	1421.6	1422.9	1426.8	1438.5	1442.4
15°	1396.8	1400.7	1407.2	1421.6	1426.8
17.5°	1370.7	1376.0	1385.1	1402.0	1407.2
20°	1339.5	1346.0	1359.0	1377.3	1383.8
22.5°	1304.3	1310.8	1329.0	1348.6	1355.1
25°	1269.1	1276.9	1295.2	1317.3	1323.8
27.5°	1227.4	1237.8	1257.4	1279.5	1284.7
30°	1184.4	1193.5	1217.0	1237.8	1247.0
32.5°	1141.4	1150.5	1172.7	1193.5	1200.1
35°	1090.6	1103.6	1125.8	1145.3	1151.8
37.5°	1041.1	1052.8	1076.3	1095.8	1102.3
40°	989.0	999.4	1024.1	1042.4	1047.6
42.5°	936.8	947.3	972.0	986.4	991.6
45°	882.1	893.8	914.7	930.3	934.2
47.5°	827.4	836.5	856.1	870.4	875.6
50°	771.4	780.5	800.0	811.8	814.4
52.5°	715.3	721.9	740.1	750.5	754.4
55°	659.3	665.8	680.2	691.9	690.6
57.5°	605.9	608.5	622.8	630.6	630.6
60°	546.0	548.6	560.3	565.5	566.8
62.5°	489.9	493.8	503.0	504.3	504.3
65°	435.2	436.5	441.7	444.3	444.3
67.5°	380.5	379.2	384.4	384.4	383.1
70°	323.1	325.7	327.0	324.4	323.1
72.5°	271.0	269.7	269.7	268.4	268.4
75°	220.2	217.6	218.9	213.7	212.4
77.5°	173.3	169.4	168.1	165.5	162.9
80°	125.1	125.1	123.8	121.2	119.9
82.5°	83.4	83.4	82.1	79.5	76.9
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)