

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: P297275

Luminaire Tested: **D3X-WO-36L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297275
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-36L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 145.8 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

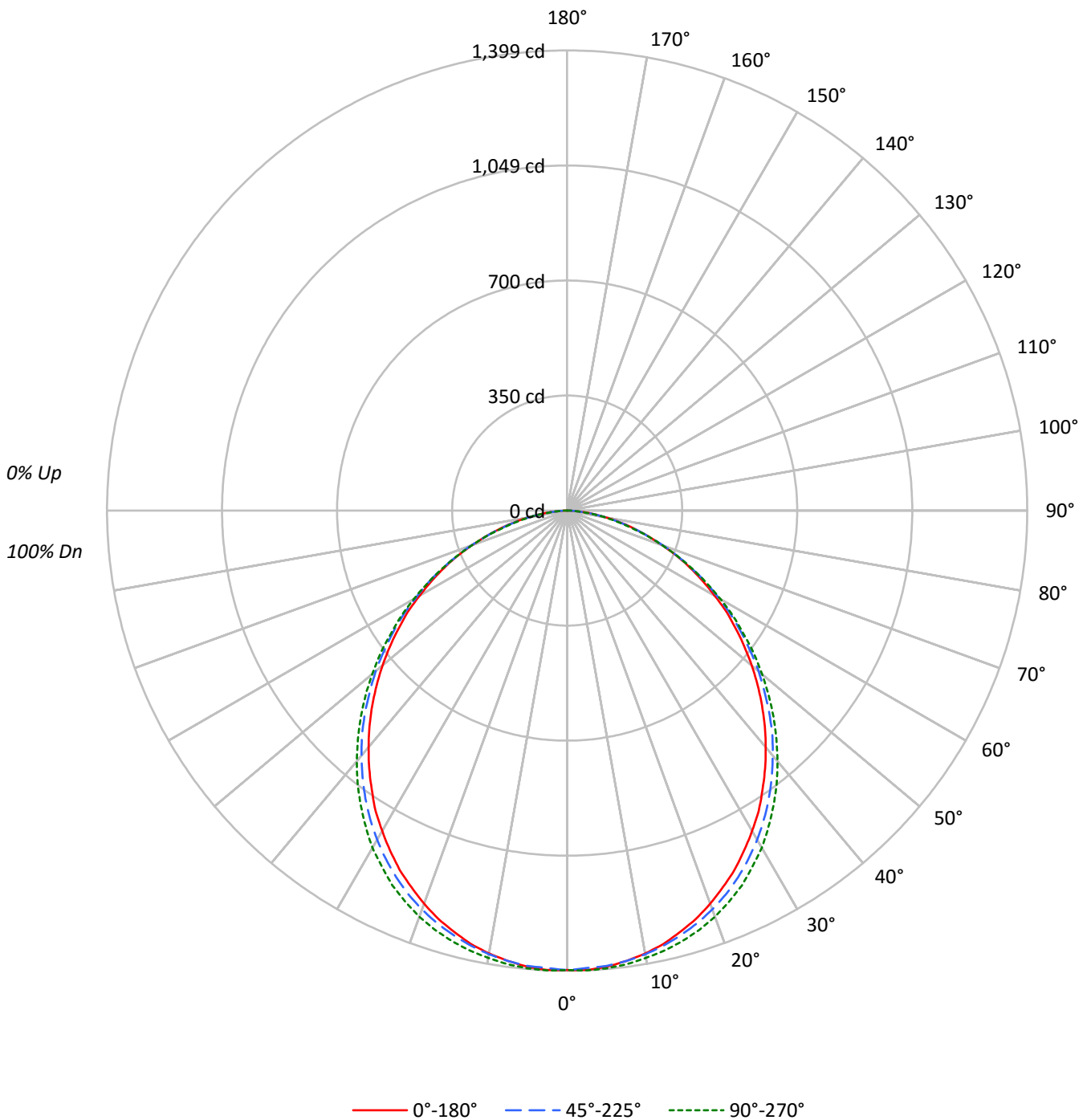
Input Watts (W): 25.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1880	1880	1880
5°	1880	1877	1887
10°	1868	1871	1887
15°	1848	1861	1887
20°	1821	1848	1881
25°	1789	1826	1866
30°	1747	1795	1840
35°	1701	1756	1797
40°	1649	1708	1747
45°	1594	1653	1688
50°	1533	1590	1619
55°	1469	1515	1538
60°	1395	1432	1448
65°	1316	1335	1343
70°	1207	1222	1207
75°	1087	1081	1049
80°	921	910	882
85°	687	668	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.6
10°-20°	377.8	10.3
20°-30°	566.5	15.4
30°-40°	667.1	18.2
40°-50°	667.2	18.2
50°-60°	575.7	15.7
60°-70°	414.3	11.3
70°-80°	219.7	6.0
80°-90°	52.4	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°	1076.5	29.3
0°-40°	1743.7	47.5
0°-60°	2986.6	81.3
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1392	1391	1390	1394	1397	132
15°	1326	1330	1336	1350	1355	374
25°	1205	1213	1230	1251	1257	554
35°	1036	1048	1069	1088	1094	648
45°	838	849	869	883	887	646
55°	626	632	646	657	656	560
65°	413	414	419	422	422	409
75°	209	207	208	203	202	222
85°	44	44	43	40	38	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.9	1396.9	1396.9	1396.9	1396.9
2.5°	1398.1	1395.7	1392.0	1396.9	1399.4
5°	1392.0	1390.7	1389.5	1394.4	1396.9
7.5°	1380.8	1382.1	1380.8	1388.2	1390.7
10°	1367.2	1368.5	1369.7	1378.4	1380.8
12.5°	1349.9	1351.1	1354.8	1366.0	1369.7
15°	1326.4	1330.1	1336.3	1349.9	1354.8
17.5°	1301.6	1306.6	1315.2	1331.3	1336.3
20°	1271.9	1278.1	1290.5	1307.8	1314.0
22.5°	1238.5	1244.7	1262.0	1280.6	1286.8
25°	1205.1	1212.6	1229.9	1250.9	1257.1
27.5°	1165.5	1175.4	1194.0	1215.0	1220.0
30°	1124.7	1133.4	1155.6	1175.4	1184.1
32.5°	1083.9	1092.5	1113.6	1133.4	1139.6
35°	1035.6	1048.0	1069.0	1087.6	1093.8
37.5°	988.6	999.7	1022.0	1040.6	1046.8
40°	939.1	949.0	972.5	989.8	994.8
42.5°	889.6	899.5	923.0	936.6	941.6
45°	837.7	848.8	868.6	883.4	887.1
47.5°	785.7	794.3	812.9	826.5	831.5
50°	732.5	741.1	759.7	770.8	773.3
52.5°	679.3	685.5	702.8	712.7	716.4
55°	626.1	632.3	645.9	657.0	655.8
57.5°	575.3	577.8	591.4	598.9	598.9
60°	518.4	520.9	532.0	537.0	538.2
62.5°	465.2	468.9	477.6	478.8	478.8
65°	413.3	414.5	419.4	421.9	421.9
67.5°	361.3	360.1	365.0	365.0	363.8
70°	306.8	309.3	310.6	308.1	306.8
72.5°	257.4	256.1	256.1	254.9	254.9
75°	209.1	206.6	207.9	202.9	201.7
77.5°	164.6	160.8	159.6	157.1	154.7
80°	118.8	118.8	117.5	115.1	113.8
82.5°	79.2	79.2	77.9	75.5	73.0
85°	44.5	44.5	43.3	39.6	38.4
87.5°	14.8	14.8	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)