

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: P297845

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3565.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

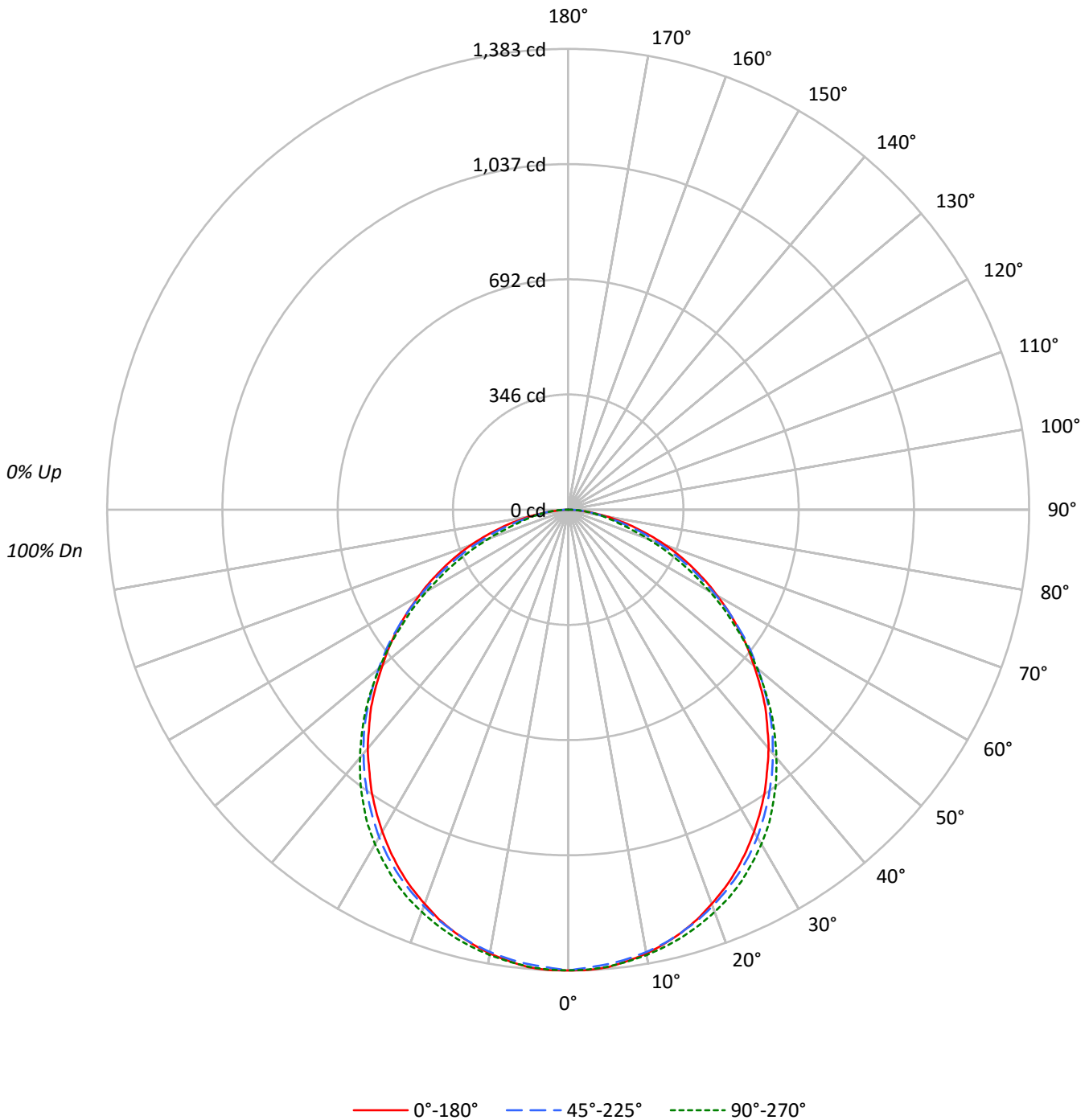
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72																												
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																												
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45																												
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40																												
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35																												
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32																												
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29																												
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3721	3721	3721
5°	3723	3698	3719
10°	3696	3683	3708
15°	3658	3658	3696
20°	3605	3627	3678
25°	3545	3585	3652
30°	3466	3526	3602
35°	3381	3445	3525
40°	3286	3355	3413
45°	3180	3249	3278
50°	3043	3106	3094
55°	2928	2950	2871
60°	2781	2741	2635
65°	2627	2521	2348
70°	2437	2235	1986
75°	2168	1917	1634
80°	1804	1568	1522
85°	1306	1399	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.7
10°-20°	371.7	10.4
20°-30°	557.1	15.6
30°-40°	656.4	18.4
40°-50°	654.7	18.4
50°-60°	556.8	15.6
60°-70°	388.6	10.9
70°-80°	197.5	5.5
80°-90°	51.6	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°	1059.3	29.7
0°-40°	1715.7	48.1
0°-60°	2927.2	82.1
0°-90°	3565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1378	1375	1369	1377	1377	131
15°	1313	1313	1313	1325	1327	370
25°	1194	1195	1207	1226	1230	550
35°	1029	1031	1049	1070	1073	643
45°	836	839	854	860	861	643
55°	624	624	629	620	612	558
65°	413	406	396	375	369	409
75°	208	201	184	162	157	221
85°	42	44	45	45	45	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.7	1382.7	1382.7	1382.7	1382.7
2.5°	1382.7	1381.2	1375.2	1381.2	1381.2
5°	1378.2	1375.2	1369.1	1376.7	1376.7
7.5°	1366.1	1364.6	1360.1	1367.6	1367.6
10°	1352.5	1351.0	1348.0	1357.0	1357.0
12.5°	1334.4	1334.4	1332.9	1341.9	1343.4
15°	1313.2	1313.2	1313.2	1325.3	1326.8
17.5°	1289.0	1287.5	1292.1	1305.7	1307.2
20°	1258.8	1260.3	1266.4	1281.5	1284.5
22.5°	1228.6	1230.1	1237.7	1255.8	1260.3
25°	1193.8	1195.4	1207.4	1225.6	1230.1
27.5°	1156.1	1159.1	1172.7	1192.3	1195.4
30°	1115.3	1118.3	1134.9	1154.6	1159.1
32.5°	1072.9	1077.5	1092.6	1113.7	1119.8
35°	1029.1	1030.6	1048.8	1069.9	1072.9
37.5°	980.8	985.3	1003.4	1021.6	1024.6
40°	935.4	938.4	955.1	970.2	971.7
42.5°	884.0	888.6	906.7	917.3	917.3
45°	835.7	838.7	853.8	859.9	861.4
47.5°	781.3	784.3	797.9	800.9	800.9
50°	726.9	734.4	742.0	742.0	739.0
52.5°	677.0	678.5	687.6	681.5	678.5
55°	624.1	624.1	628.7	619.6	612.0
57.5°	571.2	571.2	571.2	559.1	553.1
60°	516.8	515.3	509.3	494.2	489.6
62.5°	465.4	460.9	451.8	436.7	427.7
65°	412.6	406.5	395.9	374.8	368.7
67.5°	362.7	352.1	340.0	320.4	309.8
70°	309.8	300.7	284.1	261.4	252.4
72.5°	258.4	249.3	235.7	213.1	199.5
75°	208.5	201.0	184.4	161.7	157.2
77.5°	160.2	155.7	139.0	128.5	126.9
80°	116.4	114.9	101.2	98.2	98.2
82.5°	77.1	75.6	71.0	71.0	69.5
85°	42.3	43.8	45.3	45.3	45.3
87.5°	15.1	18.1	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)