

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: P298371

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3674.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

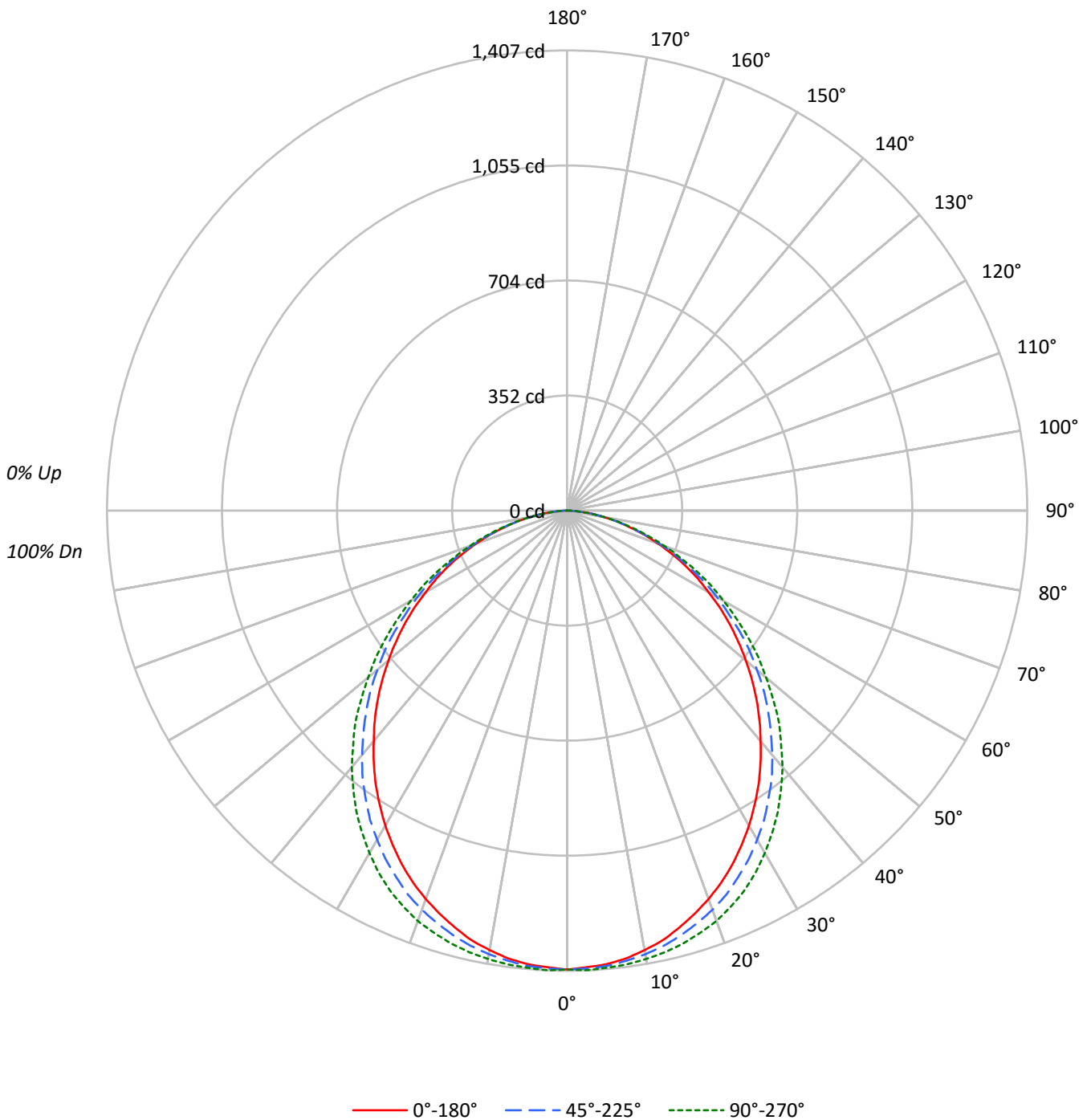
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3776	3776	3776
5°	3760	3775	3790
10°	3729	3764	3804
15°	3679	3746	3817
20°	3620	3719	3824
25°	3547	3672	3807
30°	3456	3609	3757
35°	3353	3528	3690
40°	3232	3425	3599
45°	3119	3307	3488
50°	2987	3170	3324
55°	2849	3021	3167
60°	2688	2845	2973
65°	2539	2632	2760
70°	2331	2404	2490
75°	2073	2130	2188
80°	1785	1757	1757
85°	1355	1241	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.6
10°-20°	379.4	10.3
20°-30°	569.6	15.5
30°-40°	670.4	18.2
40°-50°	668.6	18.2
50°-60°	573.8	15.6
60°-70°	410.9	11.2
70°-80°	217.6	5.9
80°-90°	50.9	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°	1081.7	29.4
0°-40°	1752.1	47.7
0°-60°	2994.5	81.5
0°-90°	3674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1392	1392	1398	1401	1403	132
15°	1321	1326	1344	1363	1370	372
25°	1194	1206	1237	1268	1282	550
35°	1021	1034	1074	1110	1123	638
45°	820	832	869	900	916	632
55°	607	616	644	666	675	543
65°	399	401	413	430	434	394
75°	199	199	205	208	210	214
85°	44	42	40	37	37	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1397.6	1397.6	1401.2	1404.9	1406.7
5°	1392.1	1392.1	1397.6	1401.2	1403.1
7.5°	1381.1	1381.1	1388.4	1395.8	1399.4
10°	1364.7	1368.3	1377.5	1388.4	1392.1
12.5°	1346.4	1350.0	1362.8	1377.5	1382.9
15°	1320.7	1326.2	1344.5	1362.8	1370.1
17.5°	1293.3	1300.6	1322.6	1344.5	1353.7
20°	1264.0	1271.4	1298.8	1324.4	1335.4
22.5°	1231.1	1240.3	1271.4	1298.8	1309.8
25°	1194.5	1205.5	1236.6	1267.7	1282.3
27.5°	1154.3	1167.1	1201.8	1234.8	1247.6
30°	1112.2	1126.8	1161.6	1196.4	1209.2
32.5°	1066.5	1079.3	1121.4	1154.3	1167.1
35°	1020.7	1033.6	1073.8	1110.4	1123.2
37.5°	971.4	987.8	1028.1	1061.0	1073.8
40°	920.1	936.6	975.0	1013.4	1024.4
42.5°	870.7	885.4	922.0	956.7	967.7
45°	819.5	832.3	868.9	900.0	916.5
47.5°	766.5	779.3	815.9	845.1	854.3
50°	713.4	726.2	757.3	782.9	793.9
52.5°	660.4	673.2	702.4	726.2	737.2
55°	607.3	616.5	643.9	665.9	675.0
57.5°	554.3	561.6	583.5	607.3	612.8
60°	499.4	508.5	528.7	545.1	552.4
62.5°	450.0	453.7	472.0	486.6	495.7
65°	398.8	400.6	413.4	429.9	433.5
67.5°	345.7	347.6	360.4	369.5	373.2
70°	296.3	296.3	305.5	312.8	316.5
72.5°	248.8	247.0	252.4	259.8	263.4
75°	199.4	199.4	204.9	208.5	210.4
77.5°	157.3	153.7	157.3	161.0	161.0
80°	115.2	113.4	113.4	115.2	113.4
82.5°	78.7	76.8	78.7	75.0	73.2
85°	43.9	42.1	40.2	36.6	36.6
87.5°	14.6	12.8	12.8	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)