

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: P298205

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L82765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

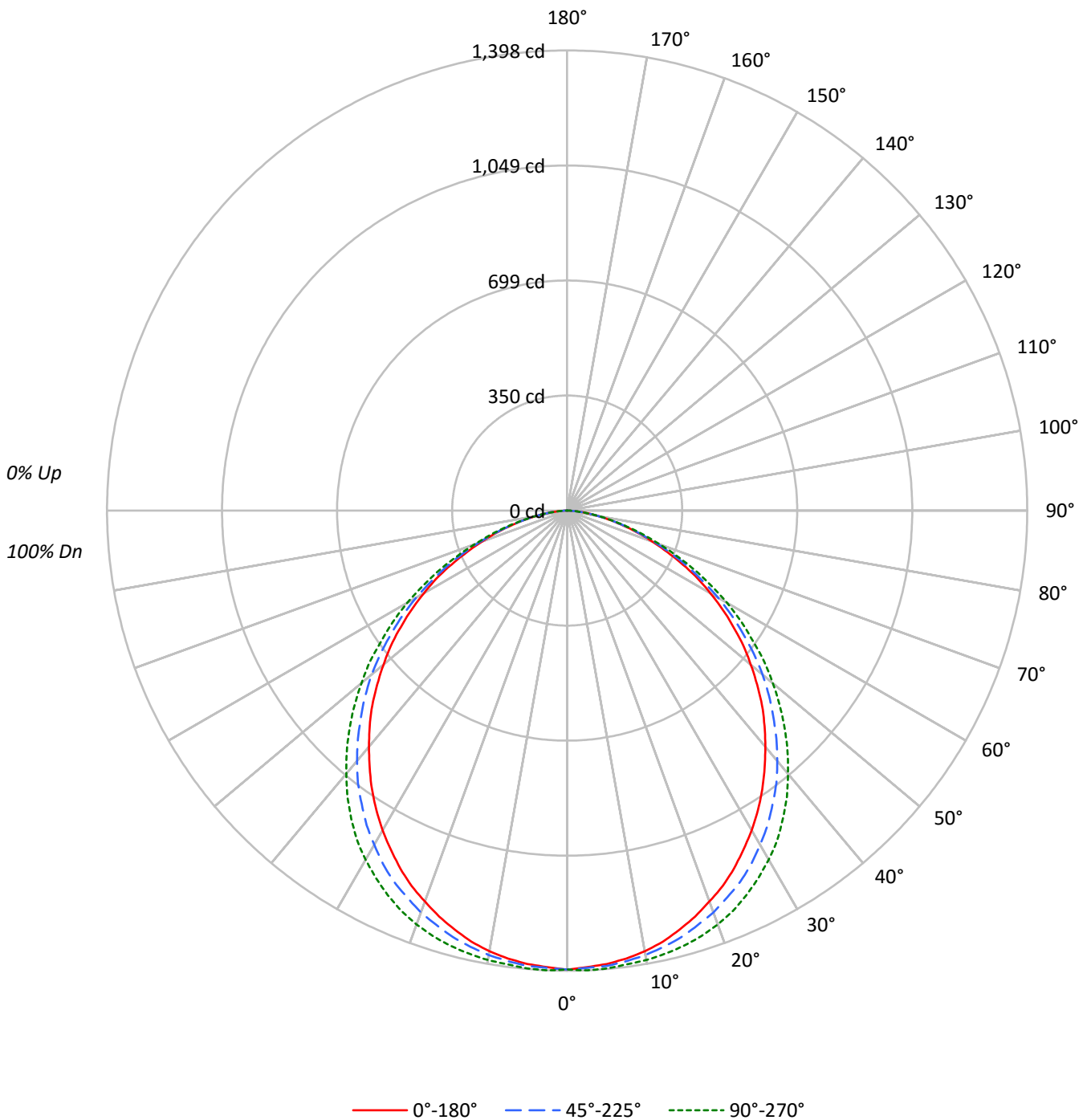
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3752	3752	3752
5°	3735	3751	3772
10°	3714	3746	3789
15°	3673	3738	3814
20°	3619	3720	3831
25°	3562	3695	3828
30°	3485	3643	3806
35°	3397	3576	3755
40°	3290	3489	3667
45°	3187	3372	3557
50°	3049	3244	3416
55°	2896	3061	3225
60°	2704	2851	3018
65°	2467	2579	2728
70°	2161	2253	2344
75°	1842	1883	1964
80°	1478	1509	1539
85°	1084	1022	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.6
10°-20°	378.8	10.3
20°-30°	572.6	15.6
30°-40°	680.2	18.5
40°-50°	682.8	18.6
50°-60°	583.3	15.9
60°-70°	401.8	11.0
70°-80°	194.8	5.3
80°-90°	42.6	1.2
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°	1083.4	29.5
0°-40°	1763.6	48.1
0°-60°	3029.7	82.6
0°-90°	3669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1394	1394	1394	1394	1394	
5°	1383	1383	1388	1392	1396	131
15°	1318	1324	1342	1359	1369	372
25°	1200	1209	1244	1278	1289	552
35°	1034	1050	1089	1130	1143	646
45°	837	849	886	923	935	645
55°	617	627	652	680	687	552
65°	388	388	405	423	428	384
75°	177	173	181	185	189	190
85°	35	35	33	31	31	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1394.3	1394.3	1394.3	1394.3	1394.3
2.5°	1388.5	1388.5	1390.4	1396.3	1398.2
5°	1382.6	1382.6	1388.5	1392.4	1396.3
7.5°	1372.9	1374.8	1380.7	1388.5	1390.4
10°	1359.3	1361.2	1370.9	1380.7	1386.5
12.5°	1341.7	1345.6	1357.3	1372.9	1378.7
15°	1318.4	1324.2	1341.7	1359.3	1369.0
17.5°	1293.0	1300.8	1320.3	1345.6	1355.4
20°	1263.8	1273.6	1298.9	1326.1	1337.8
22.5°	1234.6	1242.4	1271.6	1302.8	1316.4
25°	1199.6	1209.3	1244.4	1277.5	1289.1
27.5°	1160.6	1174.3	1211.3	1246.3	1258.0
30°	1121.7	1133.4	1172.3	1211.3	1224.9
32.5°	1078.8	1090.5	1133.4	1172.3	1187.9
35°	1034.0	1049.6	1088.6	1129.5	1143.1
37.5°	985.4	1002.9	1043.8	1078.8	1096.4
40°	936.7	952.3	993.1	1030.1	1043.8
42.5°	888.0	901.6	940.6	979.5	991.2
45°	837.4	849.0	886.0	923.0	934.7
47.5°	782.8	796.5	831.5	862.7	876.3
50°	728.3	741.9	775.0	804.3	815.9
52.5°	675.7	683.5	714.7	741.9	755.6
55°	617.3	627.0	652.4	679.6	687.4
57.5°	560.8	566.7	592.0	615.4	627.0
60°	502.4	506.3	529.7	547.2	560.8
62.5°	447.9	447.9	465.4	484.9	492.7
65°	387.5	387.5	405.0	422.6	428.4
67.5°	329.1	333.0	344.7	358.3	362.2
70°	274.6	274.6	286.3	296.0	297.9
72.5°	225.9	223.9	229.8	237.6	241.5
75°	177.2	173.3	181.1	185.0	188.9
77.5°	134.4	132.4	136.3	140.2	140.2
80°	95.4	93.5	97.4	97.4	99.3
82.5°	62.3	64.3	64.3	62.3	60.4
85°	35.1	35.1	33.1	31.2	31.2
87.5°	11.7	11.7	11.7	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)