

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: P298208

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298208
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-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

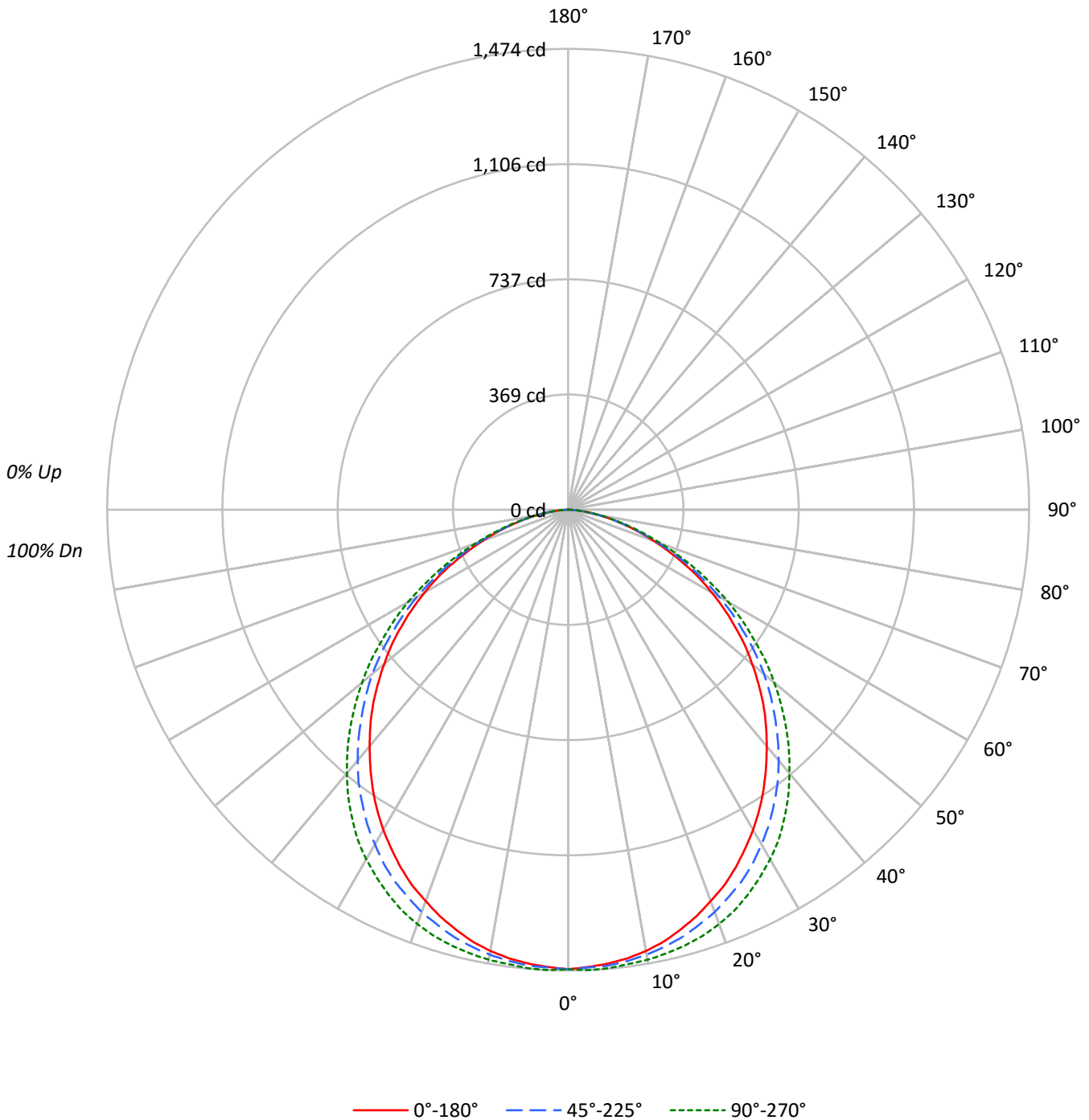
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3955	3955	3955
5°	3937	3954	3976
10°	3916	3949	3994
15°	3872	3941	4021
20°	3816	3921	4039
25°	3755	3895	4035
30°	3674	3840	4012
35°	3581	3770	3959
40°	3469	3678	3866
45°	3360	3555	3750
50°	3214	3421	3601
55°	3053	3226	3400
60°	2851	3005	3182
65°	2601	2719	2876
70°	2278	2375	2471
75°	1942	1985	2070
80°	1559	1590	1623
85°	1142	1078	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.6
10°-20°	399.3	10.3
20°-30°	603.7	15.6
30°-40°	717.1	18.5
40°-50°	719.9	18.6
50°-60°	614.9	15.9
60°-70°	423.7	11.0
70°-80°	205.4	5.3
80°-90°	44.9	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°	1142.2	29.5
0°-40°	1859.2	48.1
0°-60°	3194.0	82.6
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°	1470	1470	1470	1470	1470	
5°	1458	1458	1464	1468	1472	138
15°	1390	1396	1414	1433	1443	392
25°	1265	1275	1312	1347	1359	582
35°	1090	1107	1148	1191	1205	681
45°	883	895	934	973	985	680
55°	651	661	688	716	725	582
65°	408	408	427	446	452	405
75°	187	183	191	195	199	201
85°	37	37	35	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1463.8	1463.8	1465.8	1472.0	1474.0
5°	1457.6	1457.6	1463.8	1467.9	1472.0
7.5°	1447.3	1449.4	1455.6	1463.8	1465.8
10°	1433.0	1435.0	1445.3	1455.6	1461.7
12.5°	1414.5	1418.6	1430.9	1447.3	1453.5
15°	1389.9	1396.0	1414.5	1433.0	1443.2
17.5°	1363.2	1371.4	1391.9	1418.6	1428.9
20°	1332.4	1342.6	1369.3	1398.1	1410.4
22.5°	1301.6	1309.8	1340.6	1373.4	1387.8
25°	1264.6	1274.9	1311.8	1346.8	1359.1
27.5°	1223.6	1237.9	1276.9	1313.9	1326.2
30°	1182.5	1194.8	1235.9	1276.9	1291.3
32.5°	1137.3	1149.7	1194.8	1235.9	1252.3
35°	1090.1	1106.6	1147.6	1190.7	1205.1
37.5°	1038.8	1057.3	1100.4	1137.3	1155.8
40°	987.5	1003.9	1047.0	1086.0	1100.4
42.5°	936.2	950.5	991.6	1032.6	1045.0
45°	882.8	895.1	934.1	973.1	985.4
47.5°	825.3	839.7	876.6	909.5	923.8
50°	767.8	782.2	817.1	847.9	860.2
52.5°	712.4	720.6	753.4	782.2	796.6
55°	650.8	661.1	687.7	716.5	724.7
57.5°	591.3	597.4	624.1	648.7	661.1
60°	529.7	533.8	558.4	576.9	591.3
62.5°	472.2	472.2	490.7	511.2	519.4
65°	408.5	408.5	427.0	445.5	451.7
67.5°	347.0	351.1	363.4	377.7	381.9
70°	289.5	289.5	301.8	312.1	314.1
72.5°	238.1	236.1	242.3	250.5	254.6
75°	186.8	182.7	190.9	195.0	199.1
77.5°	141.7	139.6	143.7	147.8	147.8
80°	100.6	98.5	102.6	102.6	104.7
82.5°	65.7	67.7	67.7	65.7	63.6
85°	37.0	37.0	34.9	32.8	32.8
87.5°	12.3	12.3	12.3	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)