

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: P298038

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3698.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

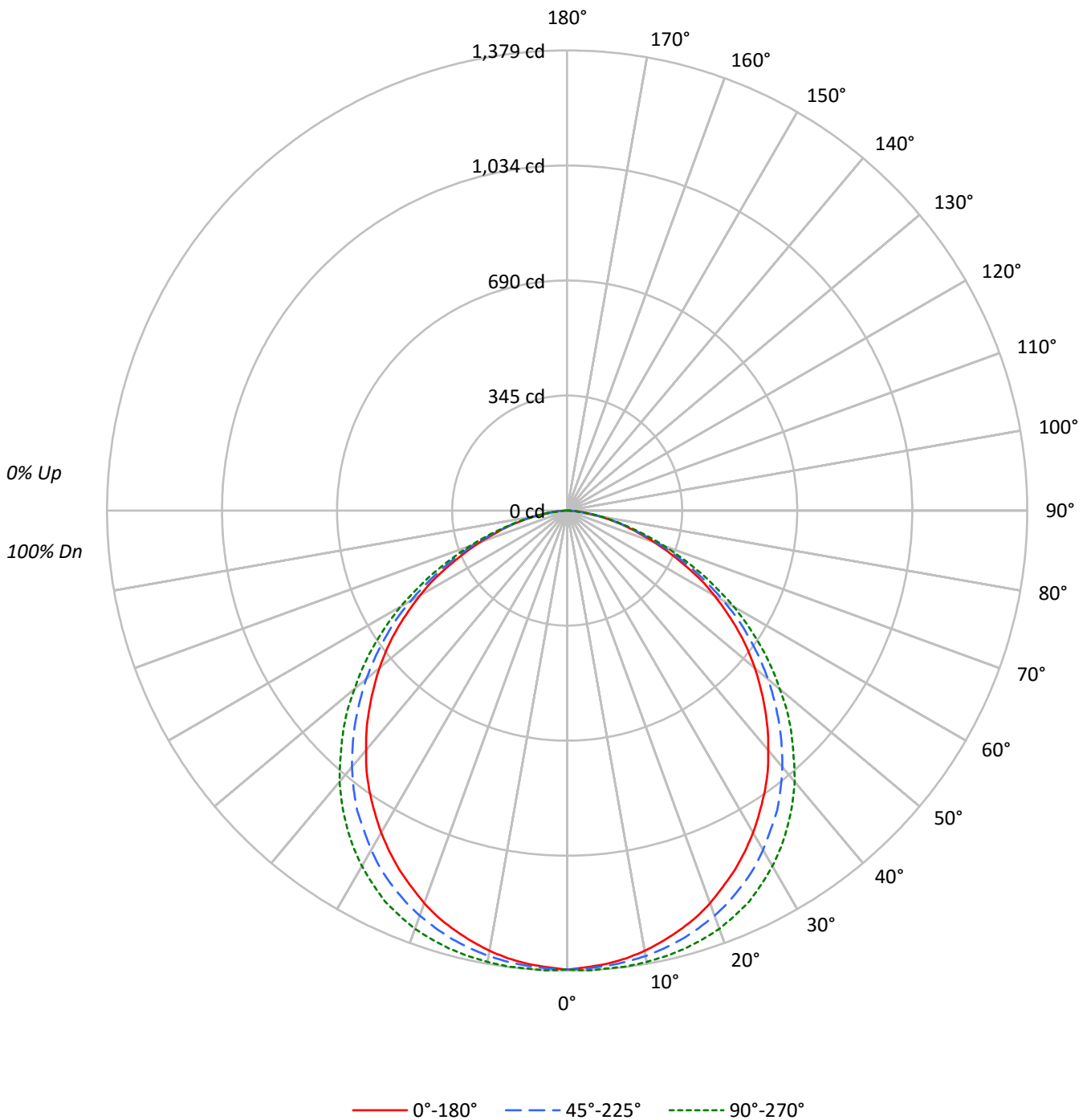
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298038

CATALOG NUMBER: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P298038

CATALOG NUMBER: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4000K

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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3701	3701	3701
5°	3683	3699	3721
10°	3660	3704	3753
15°	3627	3704	3787
20°	3585	3699	3819
25°	3528	3682	3836
30°	3464	3649	3822
35°	3387	3603	3786
40°	3293	3524	3727
45°	3189	3416	3621
50°	3075	3291	3483
55°	2932	3128	3324
60°	2743	2914	3106
65°	2484	2636	2801
70°	2193	2302	2427
75°	1883	1925	2008
80°	1511	1542	1573
85°	1105	982	982



TEST NUMBER: P298038

CATALOG NUMBER: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.5
10°-20°	375.5	10.2
20°-30°	571.1	15.4
30°-40°	683.3	18.5
40°-50°	690.8	18.7
50°-60°	594.4	16.1
60°-70°	410.4	11.1
70°-80°	199.0	5.4
80°-90°	43.1	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°	1076.9	29.1
0°-40°	1760.2	47.6
0°-60°	3045.4	82.4
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1364	1366	1370	1375	1377	129
15°	1302	1310	1330	1350	1360	367
25°	1188	1202	1240	1278	1292	547
35°	1031	1049	1097	1137	1152	644
45°	838	854	898	936	952	646
55°	625	635	667	697	709	557
65°	390	396	414	432	440	388
75°	181	177	185	191	193	192
85°	36	36	32	32	32	44
90°	0	0	0	0	0	



TEST NUMBER: P298038

CATALOG NUMBER: D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1375.4	1375.4	1375.4	1375.4	1375.4
2.5°	1369.5	1369.5	1373.4	1377.4	1379.4
5°	1363.5	1365.5	1369.5	1375.4	1377.4
7.5°	1353.5	1355.5	1363.5	1373.4	1377.4
10°	1339.6	1343.6	1355.5	1367.5	1373.4
12.5°	1321.7	1329.7	1343.6	1359.5	1367.5
15°	1301.8	1309.8	1329.7	1349.6	1359.5
17.5°	1279.9	1287.9	1311.7	1337.6	1347.6
20°	1252.0	1264.0	1291.8	1321.7	1333.6
22.5°	1220.2	1236.1	1268.0	1299.8	1313.7
25°	1188.3	1202.3	1240.1	1277.9	1291.8
27.5°	1152.5	1168.4	1210.2	1248.0	1262.0
30°	1114.7	1130.6	1174.4	1216.2	1230.1
32.5°	1072.9	1092.8	1134.6	1178.4	1194.3
35°	1031.1	1049.0	1096.8	1136.6	1152.5
37.5°	987.3	1003.2	1051.0	1092.8	1108.7
40°	937.5	955.4	1003.2	1045.0	1060.9
42.5°	889.8	907.7	951.5	991.3	1005.2
45°	838.0	853.9	897.7	935.5	951.5
47.5°	786.2	804.2	842.0	879.8	895.7
50°	734.5	748.4	786.2	822.1	832.0
52.5°	680.8	692.7	726.5	758.4	772.3
55°	625.0	635.0	666.8	696.7	708.6
57.5°	565.3	577.2	607.1	629.0	642.9
60°	509.6	515.5	541.4	563.3	577.2
62.5°	453.8	455.8	475.7	497.6	505.6
65°	390.1	396.1	414.0	431.9	439.9
67.5°	332.4	338.4	352.3	366.3	372.2
70°	278.7	278.7	292.6	302.6	308.5
72.5°	224.9	226.9	236.9	242.8	248.8
75°	181.1	177.2	185.1	191.1	193.1
77.5°	135.4	133.4	139.3	141.3	145.3
80°	97.5	97.5	99.5	101.5	101.5
82.5°	63.7	63.7	65.7	61.7	59.7
85°	35.8	35.8	31.8	31.8	31.8
87.5°	11.9	11.9	11.9	13.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)