

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: P297985

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297985
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-35L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3276.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

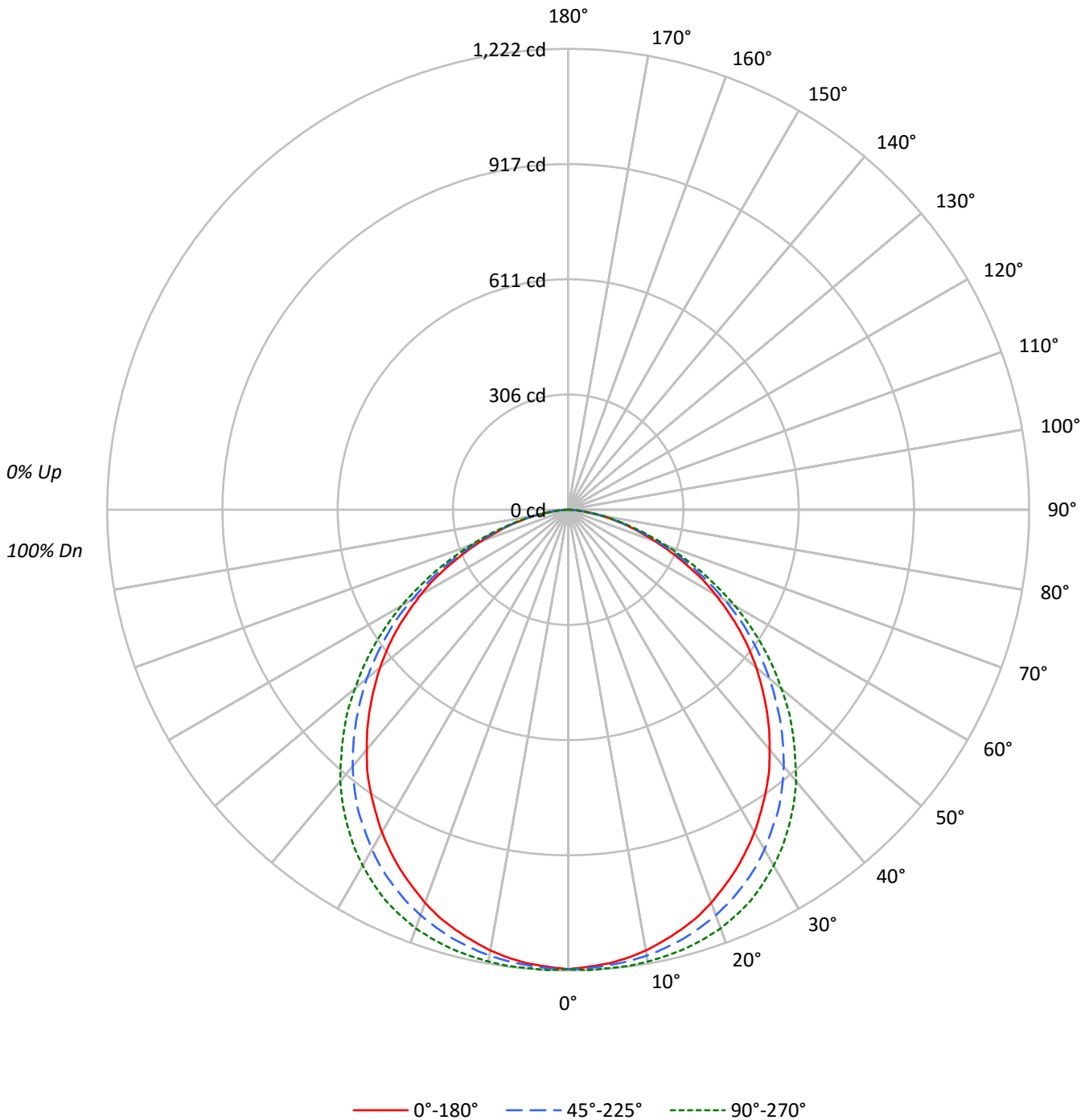
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297985

CATALOG NUMBER: D3X-WD-35L83050-LD5-UNV-22-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297985

CATALOG NUMBER: D3X-WD-35L83050-LD5-UNV-22-T1-W2A-3500K

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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3279	3279	3279
5°	3263	3277	3296
10°	3243	3281	3325
15°	3213	3282	3355
20°	3176	3277	3383
25°	3126	3262	3398
30°	3068	3233	3386
35°	3001	3192	3354
40°	2917	3122	3302
45°	2825	3027	3208
50°	2724	2916	3086
55°	2598	2771	2945
60°	2429	2581	2752
65°	2201	2336	2481
70°	1943	2039	2150
75°	1669	1705	1778
80°	1339	1367	1393
85°	979	871	871



TEST NUMBER: P297985

CATALOG NUMBER: D3X-WD-35L83050-LD5-UNV-22-T1-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.5
10°-20°	332.6	10.2
20°-30°	505.9	15.4
30°-40°	605.3	18.5
40°-50°	611.9	18.7
50°-60°	526.6	16.1
60°-70°	363.6	11.1
70°-80°	176.3	5.4
80°-90°	38.2	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°	954.0	29.1
0°-40°	1559.3	47.6
0°-60°	2697.9	82.4
0°-90°	3276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1208	1210	1213	1218	1220	115
15°	1153	1160	1178	1196	1204	325
25°	1053	1065	1099	1132	1144	485
35°	913	929	972	1007	1021	571
45°	742	756	795	829	843	573
55°	554	562	591	617	628	494
65°	346	351	367	383	390	344
75°	160	157	164	169	171	170
85°	32	32	28	28	28	39
90°	0	0	0	0	0	



TEST NUMBER: P297985

CATALOG NUMBER: D3X-WD-35L83050-LD5-UNV-22-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.5	1218.5	1218.5	1218.5	1218.5
2.5°	1213.2	1213.2	1216.7	1220.2	1222.0
5°	1207.9	1209.7	1213.2	1218.5	1220.2
7.5°	1199.1	1200.8	1207.9	1216.7	1220.2
10°	1186.7	1190.3	1200.8	1211.4	1216.7
12.5°	1170.9	1177.9	1190.3	1204.4	1211.4
15°	1153.2	1160.3	1177.9	1195.6	1204.4
17.5°	1133.8	1140.9	1162.1	1185.0	1193.8
20°	1109.2	1119.7	1144.4	1170.9	1181.4
22.5°	1080.9	1095.0	1123.3	1151.5	1163.8
25°	1052.7	1065.1	1098.6	1132.1	1144.4
27.5°	1021.0	1035.1	1072.1	1105.6	1118.0
30°	987.5	1001.6	1040.4	1077.4	1089.8
32.5°	950.4	968.1	1005.1	1043.9	1058.0
35°	913.4	929.3	971.6	1006.9	1021.0
37.5°	874.6	888.7	931.1	968.1	982.2
40°	830.5	846.4	888.7	925.8	939.9
42.5°	788.2	804.1	842.9	878.2	890.5
45°	742.4	756.5	795.3	828.8	842.9
47.5°	696.5	712.4	745.9	779.4	793.5
50°	650.7	663.0	696.5	728.3	737.1
52.5°	603.1	613.6	643.6	671.8	684.2
55°	553.7	562.5	590.7	617.2	627.8
57.5°	500.8	511.4	537.8	557.2	569.6
60°	451.4	456.7	479.6	499.0	511.4
62.5°	402.0	403.8	421.4	440.8	447.9
65°	345.6	350.9	366.8	382.6	389.7
67.5°	294.5	299.8	312.1	324.5	329.7
70°	246.9	246.9	259.2	268.0	273.3
72.5°	199.3	201.0	209.8	215.1	220.4
75°	160.5	156.9	164.0	169.3	171.0
77.5°	119.9	118.1	123.4	125.2	128.7
80°	86.4	86.4	88.2	89.9	89.9
82.5°	56.4	56.4	58.2	54.7	52.9
85°	31.7	31.7	28.2	28.2	28.2
87.5°	10.6	10.6	10.6	12.3	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)