

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: P296921

Luminaire Tested: **D3X-WD-42L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-42L92765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3584.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

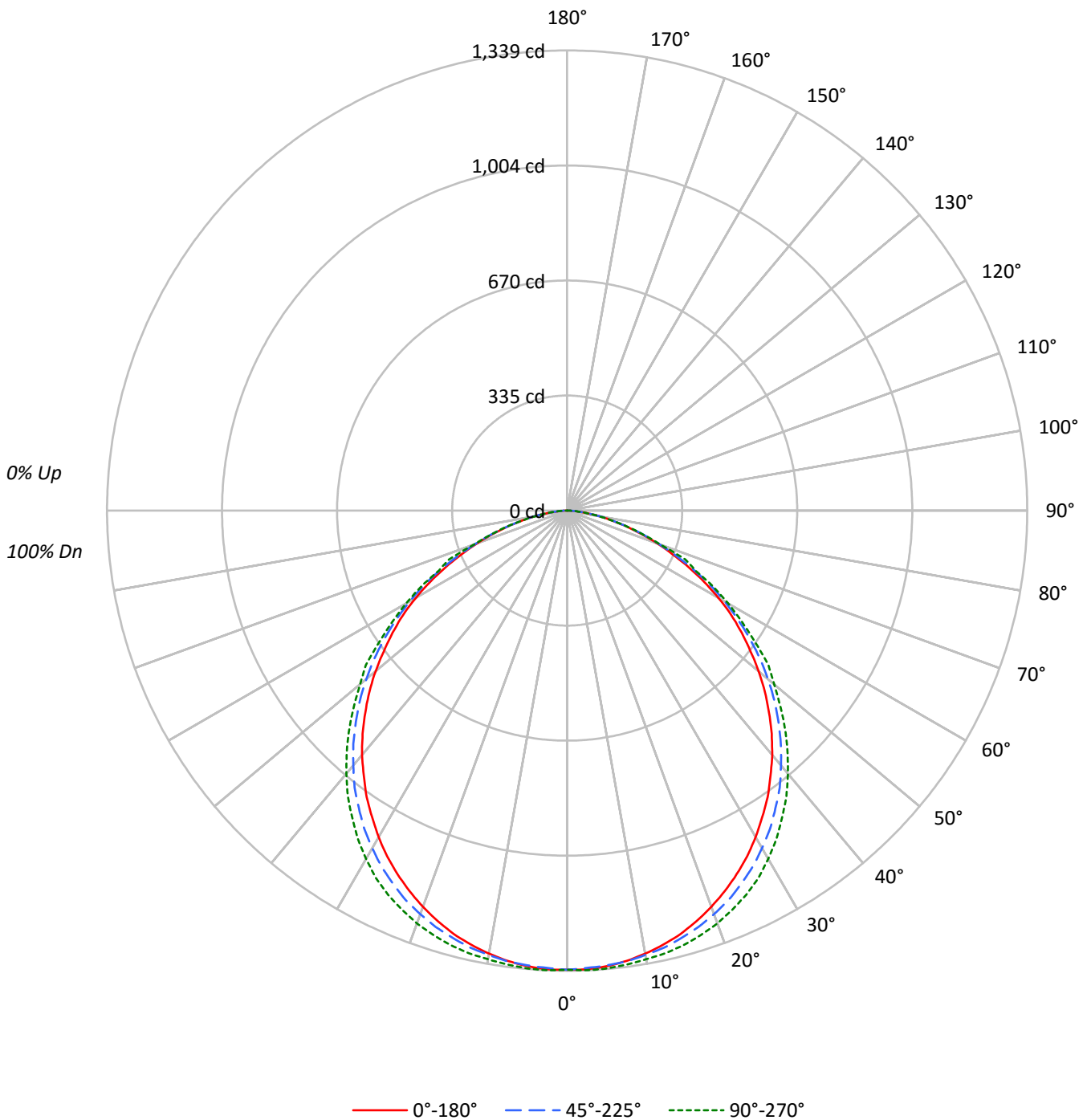
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	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	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	30	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°	1798	1798	1798
5°	1798	1794	1806
10°	1789	1794	1811
15°	1777	1793	1824
20°	1757	1790	1830
25°	1733	1779	1831
30°	1704	1762	1818
35°	1671	1736	1791
40°	1631	1701	1755
45°	1581	1654	1705
50°	1523	1596	1645
55°	1454	1520	1566
60°	1370	1422	1457
65°	1245	1286	1310
70°	1093	1118	1133
75°	923	936	943
80°	738	747	728
85°	496	516	496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	3.5
10°-20°	364.1	10.2
20°-30°	552.5	15.4
30°-40°	659.6	18.4
40°-50°	667.8	18.6
50°-60°	577.2	16.1
60°-70°	400.1	11.2
70°-80°	193.6	5.4
80°-90°	42.5	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°	1043.2	29.1
0°-40°	1702.8	47.5
0°-60°	2947.8	82.2
0°-90°	3584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1331	1330	1328	1335	1337	126
15°	1276	1278	1287	1303	1309	360
25°	1168	1175	1198	1223	1233	538
35°	1017	1026	1057	1084	1090	635
45°	831	842	869	891	896	641
55°	620	626	648	675	667	554
65°	391	395	404	410	412	387
75°	178	179	180	179	181	190
85°	32	35	33	32	32	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.1	1336.1	1336.1	1336.1	1336.1
2.5°	1336.1	1334.8	1332.2	1336.1	1338.7
5°	1330.9	1329.7	1328.4	1334.8	1337.4
7.5°	1321.9	1321.9	1323.2	1329.7	1332.2
10°	1309.1	1310.4	1312.9	1323.2	1325.8
12.5°	1293.7	1296.2	1302.7	1314.2	1319.4
15°	1275.7	1278.2	1287.2	1302.7	1309.1
17.5°	1252.5	1257.6	1270.5	1288.5	1294.9
20°	1226.8	1233.2	1249.9	1270.5	1278.2
22.5°	1198.5	1204.9	1226.8	1248.6	1256.4
25°	1167.6	1175.3	1198.5	1222.9	1233.2
27.5°	1134.2	1143.2	1168.9	1194.6	1204.9
30°	1096.9	1107.2	1134.2	1161.2	1170.2
32.5°	1057.0	1067.3	1098.2	1123.9	1132.9
35°	1017.2	1026.2	1057.0	1084.0	1090.5
37.5°	972.2	982.5	1015.9	1039.0	1048.0
40°	928.4	938.7	968.3	991.5	999.2
42.5°	880.9	891.2	920.7	942.6	949.0
45°	830.7	842.3	869.3	891.2	896.3
47.5°	780.6	789.6	817.9	837.1	841.0
50°	727.8	736.8	762.6	781.9	785.7
52.5°	672.5	686.7	707.3	721.4	738.1
55°	619.8	626.3	648.1	675.1	667.4
57.5°	567.1	571.0	589.0	600.5	603.1
60°	509.2	514.4	528.5	535.0	541.4
62.5°	448.8	452.7	469.4	475.8	478.4
65°	390.9	394.8	403.8	410.2	411.5
67.5°	331.8	335.6	343.3	348.5	371.6
70°	277.8	280.3	284.2	294.5	288.1
72.5°	226.3	227.6	231.5	231.5	232.8
75°	177.5	178.7	180.0	178.7	181.3
77.5°	132.5	135.0	136.3	135.0	133.7
80°	95.2	97.7	96.4	93.9	93.9
82.5°	61.7	63.0	61.7	60.4	60.4
85°	32.1	34.7	33.4	32.1	32.1
87.5°	11.6	12.9	14.1	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)