

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: P298052

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298052
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-44L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

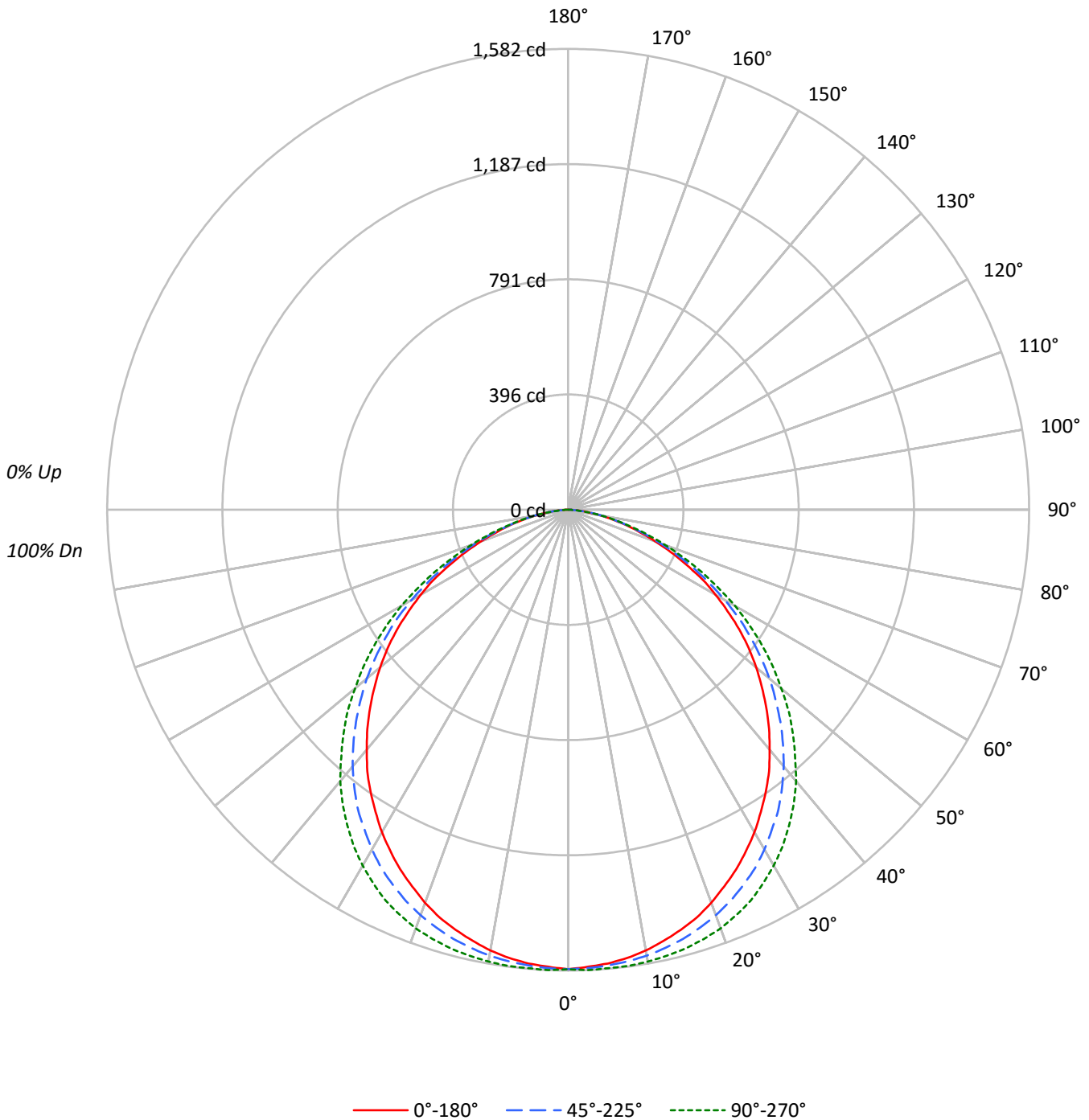
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4245	4245	4245
5°	4224	4243	4267
10°	4198	4248	4304
15°	4159	4248	4344
20°	4112	4243	4380
25°	4046	4223	4399
30°	3972	4185	4384
35°	3885	4132	4342
40°	3777	4042	4274
45°	3658	3918	4153
50°	3526	3775	3995
55°	3363	3588	3813
60°	3145	3342	3563
65°	2849	3023	3212
70°	2515	2640	2784
75°	2159	2207	2302
80°	1734	1768	1804
85°	1269	1127	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	3.5
10°-20°	430.6	10.2
20°-30°	655.0	15.4
30°-40°	783.6	18.5
40°-50°	792.2	18.7
50°-60°	681.7	16.1
60°-70°	470.7	11.1
70°-80°	228.2	5.4
80°-90°	49.5	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°	1235.1	29.1
0°-40°	2018.7	47.6
0°-60°	3492.6	82.4
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1564	1566	1571	1577	1580	148
15°	1493	1502	1525	1548	1559	421
25°	1363	1379	1422	1466	1482	627
35°	1182	1203	1258	1304	1322	739
45°	961	979	1030	1073	1091	741
55°	717	728	765	799	813	639
65°	447	454	475	495	504	445
75°	208	203	212	219	221	220
85°	41	41	36	36	36	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1570.6	1570.6	1575.1	1579.7	1582.0
5°	1563.7	1566.0	1570.6	1577.4	1579.7
7.5°	1552.3	1554.6	1563.7	1575.1	1579.7
10°	1536.3	1540.9	1554.6	1568.3	1575.1
12.5°	1515.8	1524.9	1540.9	1559.1	1568.3
15°	1492.9	1502.1	1524.9	1547.7	1559.1
17.5°	1467.8	1477.0	1504.4	1534.0	1545.4
20°	1435.9	1449.6	1481.5	1515.8	1529.5
22.5°	1399.3	1417.6	1454.1	1490.7	1506.6
25°	1362.8	1378.8	1422.2	1465.5	1481.5
27.5°	1321.7	1340.0	1387.9	1431.3	1447.3
30°	1278.4	1296.6	1346.8	1394.8	1410.8
32.5°	1230.4	1253.2	1301.2	1351.4	1369.7
35°	1182.5	1203.0	1257.8	1303.5	1321.7
37.5°	1132.3	1150.5	1205.3	1253.2	1271.5
40°	1075.2	1095.7	1150.5	1198.5	1216.7
42.5°	1020.4	1040.9	1091.2	1136.8	1152.8
45°	961.1	979.3	1029.5	1072.9	1091.2
47.5°	901.7	922.2	965.6	1009.0	1027.3
50°	842.3	858.3	901.7	942.8	954.2
52.5°	780.7	794.4	833.2	869.7	885.7
55°	716.8	728.2	764.7	799.0	812.7
57.5°	648.3	662.0	696.2	721.4	737.3
60°	584.4	591.2	620.9	646.0	662.0
62.5°	520.5	522.8	545.6	570.7	579.8
65°	447.4	454.3	474.8	495.4	504.5
67.5°	381.2	388.1	404.1	420.0	426.9
70°	319.6	319.6	335.6	347.0	353.8
72.5°	258.0	260.2	271.7	278.5	285.3
75°	207.7	203.2	212.3	219.1	221.4
77.5°	155.2	152.9	159.8	162.1	166.6
80°	111.9	111.9	114.1	116.4	116.4
82.5°	73.0	73.0	75.3	70.8	68.5
85°	41.1	41.1	36.5	36.5	36.5
87.5°	13.7	13.7	13.7	16.0	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)