

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: P298359

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L82765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

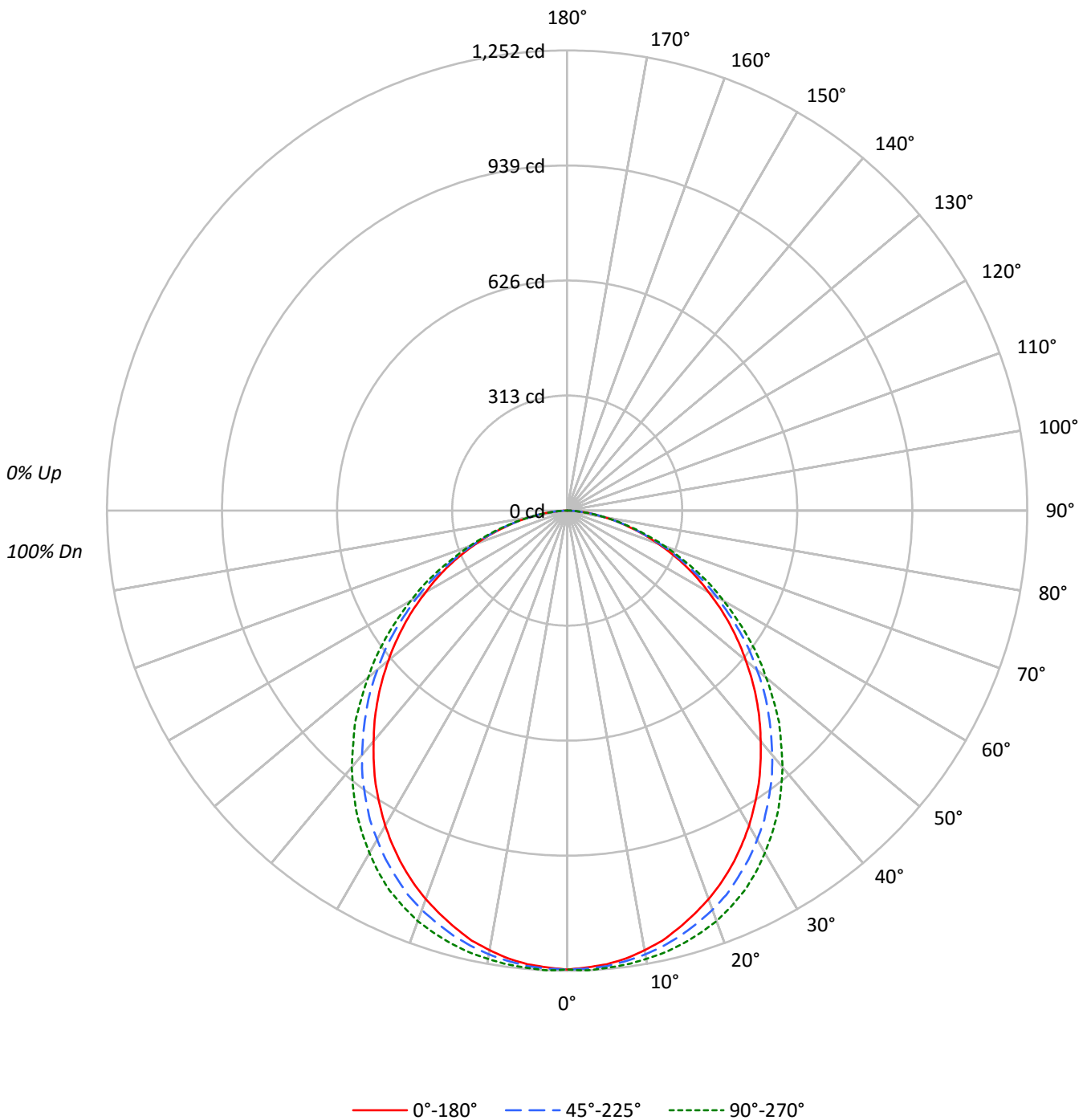
Input Watts (W): 25.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3360	3360	3360
5°	3347	3360	3373
10°	3319	3350	3386
15°	3275	3334	3397
20°	3222	3310	3403
25°	3157	3268	3389
30°	3076	3213	3344
35°	2984	3140	3284
40°	2877	3048	3203
45°	2776	2943	3104
50°	2658	2822	2958
55°	2536	2689	2819
60°	2392	2532	2646
65°	2260	2343	2457
70°	2076	2139	2216
75°	1845	1896	1946
80°	1590	1564	1564
85°	1207	1105	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	3.6
10°-20°	337.7	10.3
20°-30°	507.0	15.5
30°-40°	596.7	18.2
40°-50°	595.1	18.2
50°-60°	510.7	15.6
60°-70°	365.8	11.2
70°-80°	193.7	5.9
80°-90°	45.3	1.4
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°	962.8	29.4
0°-40°	1559.4	47.7
0°-60°	2665.2	81.5
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1239	1239	1244	1247	1249	117
15°	1176	1180	1197	1213	1220	331
25°	1063	1073	1101	1128	1141	489
35°	908	920	956	988	1000	567
45°	729	741	773	801	816	562
55°	540	549	573	593	601	483
65°	355	357	368	383	386	351
75°	178	178	182	186	187	190
85°	39	37	36	33	33	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.8	1248.8	1248.8	1248.8	1248.8
2.5°	1243.9	1243.9	1247.2	1250.4	1252.0
5°	1239.0	1239.0	1243.9	1247.2	1248.8
7.5°	1229.2	1229.2	1235.8	1242.3	1245.5
10°	1214.6	1217.8	1226.0	1235.8	1239.0
12.5°	1198.3	1201.6	1213.0	1226.0	1230.9
15°	1175.5	1180.4	1196.7	1213.0	1219.5
17.5°	1151.1	1157.6	1177.1	1196.7	1204.8
20°	1125.0	1131.6	1156.0	1178.8	1188.5
22.5°	1095.7	1103.9	1131.6	1156.0	1165.7
25°	1063.2	1072.9	1100.6	1128.3	1141.3
27.5°	1027.4	1038.8	1069.7	1099.0	1110.4
30°	989.9	1002.9	1033.9	1064.8	1076.2
32.5°	949.2	960.6	998.0	1027.4	1038.8
35°	908.5	919.9	955.7	988.3	999.7
37.5°	864.5	879.2	915.0	944.3	955.7
40°	819.0	833.6	867.8	902.0	911.8
42.5°	775.0	788.0	820.6	851.5	861.3
45°	729.4	740.8	773.4	801.0	815.7
47.5°	682.2	693.6	726.2	752.2	760.3
50°	635.0	646.4	674.1	696.8	706.6
52.5°	587.8	599.2	625.2	646.4	656.1
55°	540.5	548.7	573.1	592.6	600.8
57.5°	493.3	499.8	519.4	540.5	545.4
60°	444.5	452.6	470.5	485.2	491.7
62.5°	400.5	403.8	420.1	433.1	441.2
65°	354.9	356.6	368.0	382.6	385.9
67.5°	307.7	309.3	320.7	328.9	332.1
70°	263.8	263.8	271.9	278.4	281.7
72.5°	221.4	219.8	224.7	231.2	234.5
75°	177.5	177.5	182.4	185.6	187.2
77.5°	140.0	136.8	140.0	143.3	143.3
80°	102.6	100.9	100.9	102.6	100.9
82.5°	70.0	68.4	70.0	66.8	65.1
85°	39.1	37.4	35.8	32.6	32.6
87.5°	13.0	11.4	11.4	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)