

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: P298181

Luminaire Tested: **D3X-WG-25L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-25L82765-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2381.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

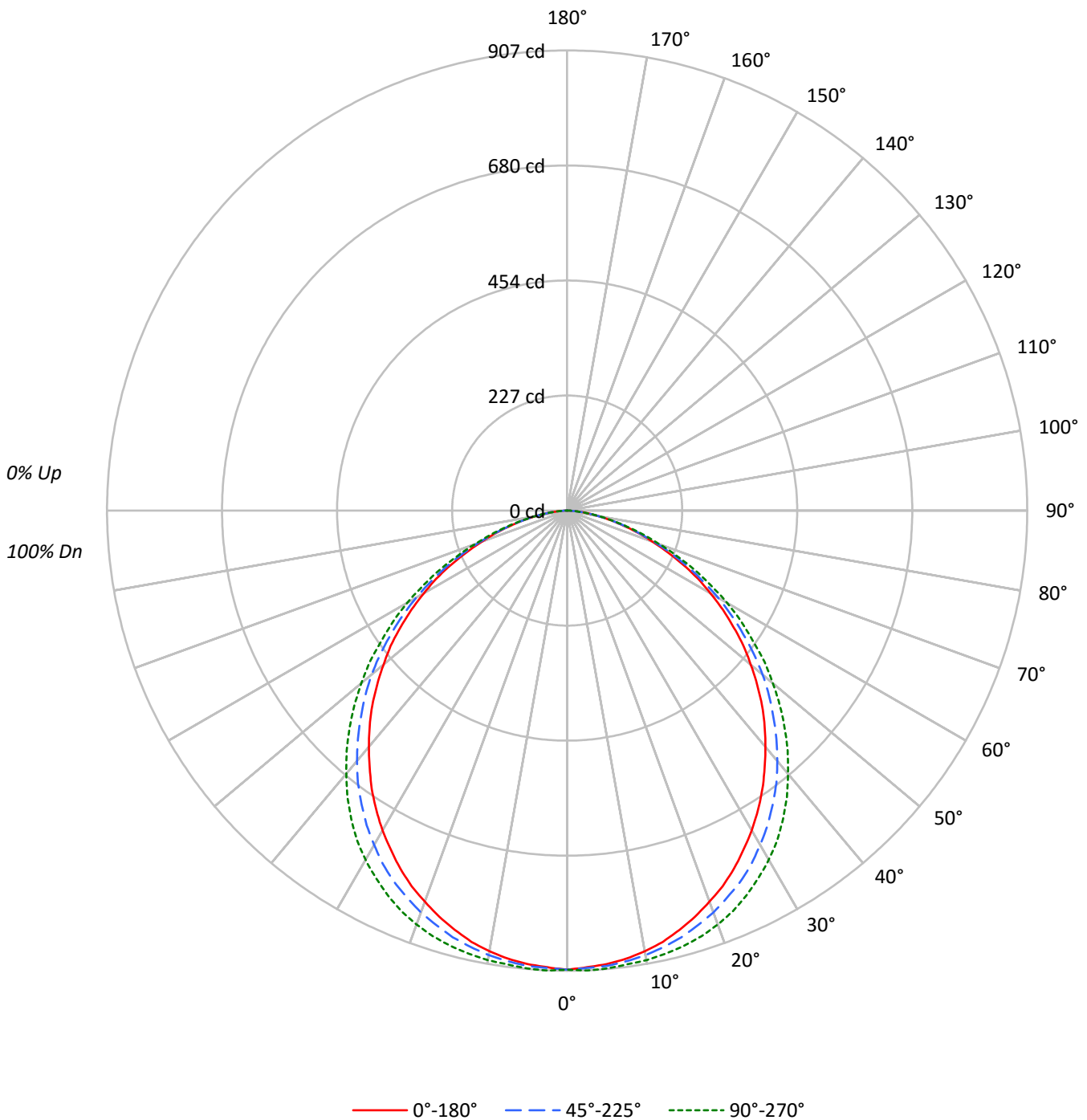
Input Watts (W): 19.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2424	2434	2448
10°	2410	2431	2459
15°	2383	2426	2475
20°	2349	2414	2486
25°	2311	2398	2484
30°	2262	2364	2470
35°	2204	2321	2437
40°	2135	2264	2380
45°	2068	2188	2308
50°	1979	2106	2217
55°	1879	1986	2093
60°	1755	1850	1959
65°	1601	1674	1770
70°	1402	1462	1522
75°	1196	1222	1275
80°	959	979	1000
85°	701	664	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	3.6
10°-20°	245.8	10.3
20°-30°	371.6	15.6
30°-40°	441.4	18.5
40°-50°	443.1	18.6
50°-60°	378.5	15.9
60°-70°	260.8	11.0
70°-80°	126.5	5.3
80°-90°	27.7	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°	703.1	29.5
0°-40°	1144.5	48.1
0°-60°	1966.1	82.6
0°-90°	2381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	897	897	901	904	906	85
15°	856	859	871	882	888	241
25°	778	785	808	829	837	358
35°	671	681	706	733	742	419
45°	543	551	575	599	607	418
55°	401	407	423	441	446	358
65°	252	252	263	274	278	249
75°	115	112	118	120	123	124
85°	23	23	22	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.8	904.8	904.8	904.8	904.8
2.5°	901.0	901.0	902.3	906.1	907.4
5°	897.3	897.3	901.0	903.6	906.1
7.5°	890.9	892.2	896.0	901.0	902.3
10°	882.1	883.4	889.7	896.0	899.8
12.5°	870.7	873.2	880.8	890.9	894.7
15°	855.5	859.3	870.7	882.1	888.4
17.5°	839.1	844.2	856.8	873.2	879.6
20°	820.2	826.5	842.9	860.6	868.2
22.5°	801.2	806.3	825.2	845.4	854.3
25°	778.5	784.8	807.5	829.0	836.6
27.5°	753.2	762.0	786.0	808.8	816.4
30°	727.9	735.5	760.8	786.0	794.9
32.5°	700.1	707.7	735.5	760.8	770.9
35°	671.0	681.2	706.4	733.0	741.8
37.5°	639.5	650.8	677.4	700.1	711.5
40°	607.9	618.0	644.5	668.5	677.4
42.5°	576.3	585.1	610.4	635.7	643.2
45°	543.4	551.0	575.0	599.0	606.6
47.5°	508.0	516.9	539.6	559.8	568.7
50°	472.6	481.5	503.0	521.9	529.5
52.5°	438.5	443.6	463.8	481.5	490.3
55°	400.6	406.9	423.4	441.0	446.1
57.5°	364.0	367.7	384.2	399.3	406.9
60°	326.0	328.6	343.7	355.1	364.0
62.5°	290.7	290.7	302.0	314.7	319.7
65°	251.5	251.5	262.9	274.2	278.0
67.5°	213.6	216.1	223.7	232.5	235.1
70°	178.2	178.2	185.8	192.1	193.4
72.5°	146.6	145.3	149.1	154.2	156.7
75°	115.0	112.5	117.5	120.1	122.6
77.5°	87.2	85.9	88.5	91.0	91.0
80°	61.9	60.7	63.2	63.2	64.5
82.5°	40.4	41.7	41.7	40.4	39.2
85°	22.7	22.7	21.5	20.2	20.2
87.5°	7.6	7.6	7.6	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)