

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: P298269

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298269
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-31L92765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

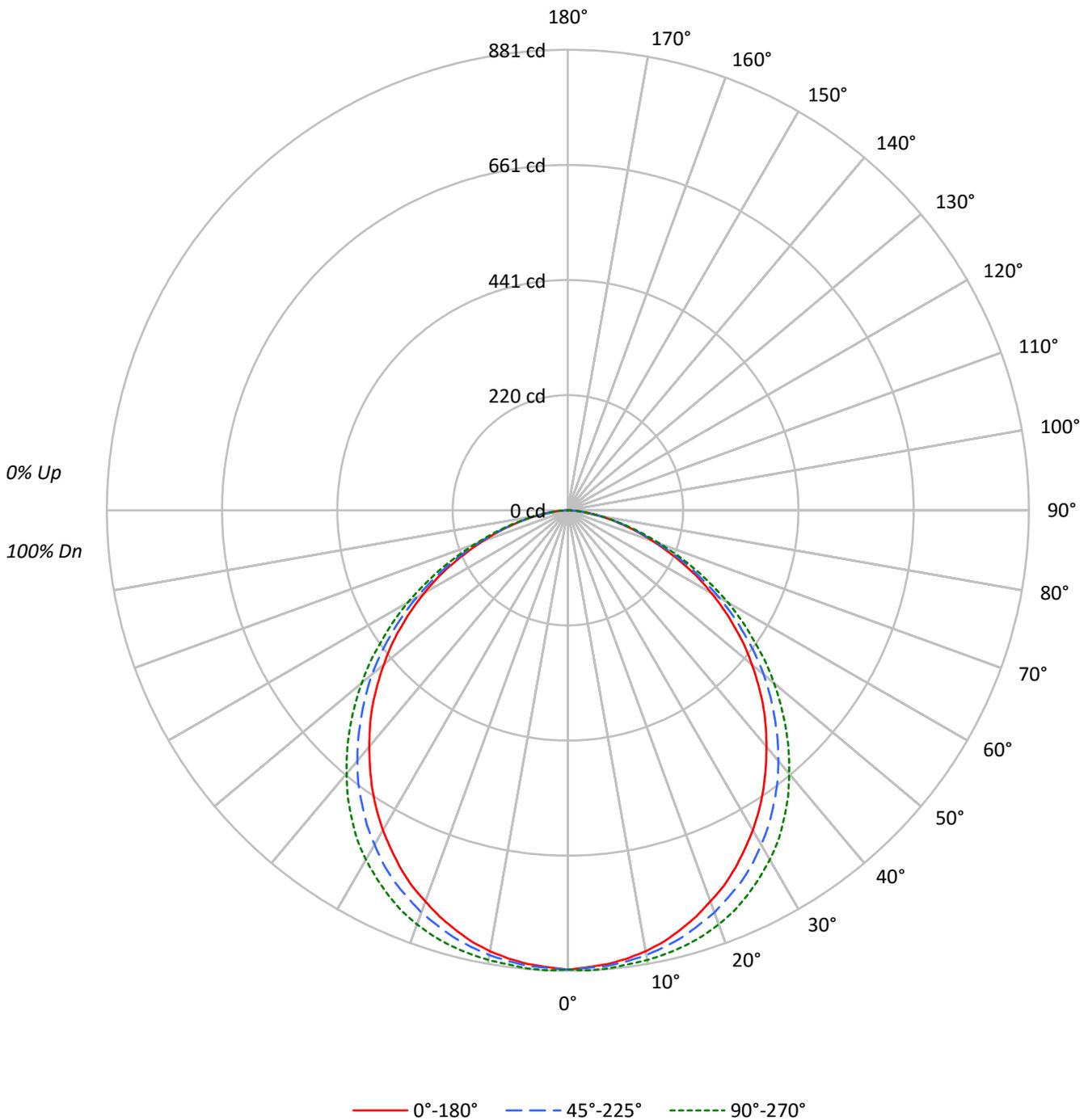
Input Watts (W): 24.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2364	2364	2364
5°	2354	2363	2377
10°	2340	2361	2387
15°	2315	2355	2403
20°	2281	2344	2414
25°	2244	2328	2412
30°	2196	2295	2399
35°	2141	2254	2366
40°	2073	2198	2310
45°	2008	2125	2242
50°	1921	2045	2153
55°	1825	1929	2032
60°	1704	1796	1902
65°	1555	1625	1719
70°	1361	1419	1477
75°	1161	1186	1237
80°	931	951	970
85°	682	645	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.6
10°-20°	238.7	10.3
20°-30°	360.8	15.6
30°-40°	428.6	18.5
40°-50°	430.3	18.6
50°-60°	367.5	15.9
60°-70°	253.2	11.0
70°-80°	122.8	5.3
80°-90°	26.9	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°	682.7	29.5
0°-40°	1111.3	48.1
0°-60°	1909.1	82.6
0°-90°	2312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	871	871	875	877	880	83
15°	831	834	846	856	863	234
25°	756	762	784	805	812	348
35°	652	661	686	712	720	407
45°	528	535	558	582	589	406
55°	389	395	411	428	433	348
65°	244	244	255	266	270	242
75°	112	109	114	117	119	120
85°	22	22	21	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.6	878.6	878.6	878.6	878.6
2.5°	874.9	874.9	876.2	879.8	881.1
5°	871.3	871.3	874.9	877.4	879.8
7.5°	865.1	866.3	870.0	874.9	876.2
10°	856.5	857.8	863.9	870.0	873.7
12.5°	845.5	847.9	855.3	865.1	868.8
15°	830.8	834.4	845.5	856.5	862.7
17.5°	814.8	819.7	832.0	847.9	854.1
20°	796.4	802.5	818.5	835.7	843.0
22.5°	778.0	782.9	801.3	820.9	829.5
25°	755.9	762.0	784.1	805.0	812.3
27.5°	731.4	739.9	763.3	785.4	792.7
30°	706.8	714.2	738.7	763.3	771.9
32.5°	679.8	687.2	714.2	738.7	748.5
35°	651.6	661.4	686.0	711.7	720.3
37.5°	620.9	632.0	657.7	679.8	690.9
40°	590.2	600.1	625.8	649.1	657.7
42.5°	559.6	568.2	592.7	617.2	624.6
45°	527.7	535.0	558.3	581.7	589.0
47.5°	493.3	501.9	524.0	543.6	552.2
50°	458.9	467.5	488.4	506.8	514.2
52.5°	425.8	430.7	450.4	467.5	476.1
55°	389.0	395.1	411.1	428.3	433.2
57.5°	353.4	357.1	373.0	387.8	395.1
60°	316.6	319.0	333.8	344.8	353.4
62.5°	282.2	282.2	293.3	305.6	310.5
65°	244.2	244.2	255.2	266.3	270.0
67.5°	207.4	209.8	217.2	225.8	228.2
70°	173.0	173.0	180.4	186.5	187.7
72.5°	142.3	141.1	144.8	149.7	152.2
75°	111.7	109.2	114.1	116.6	119.0
77.5°	84.7	83.4	85.9	88.4	88.4
80°	60.1	58.9	61.4	61.4	62.6
82.5°	39.3	40.5	40.5	39.3	38.0
85°	22.1	22.1	20.9	19.6	19.6
87.5°	7.4	7.4	7.4	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)