

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: P298143

Luminaire Tested: **D3X-WG-25L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298143
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-25L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

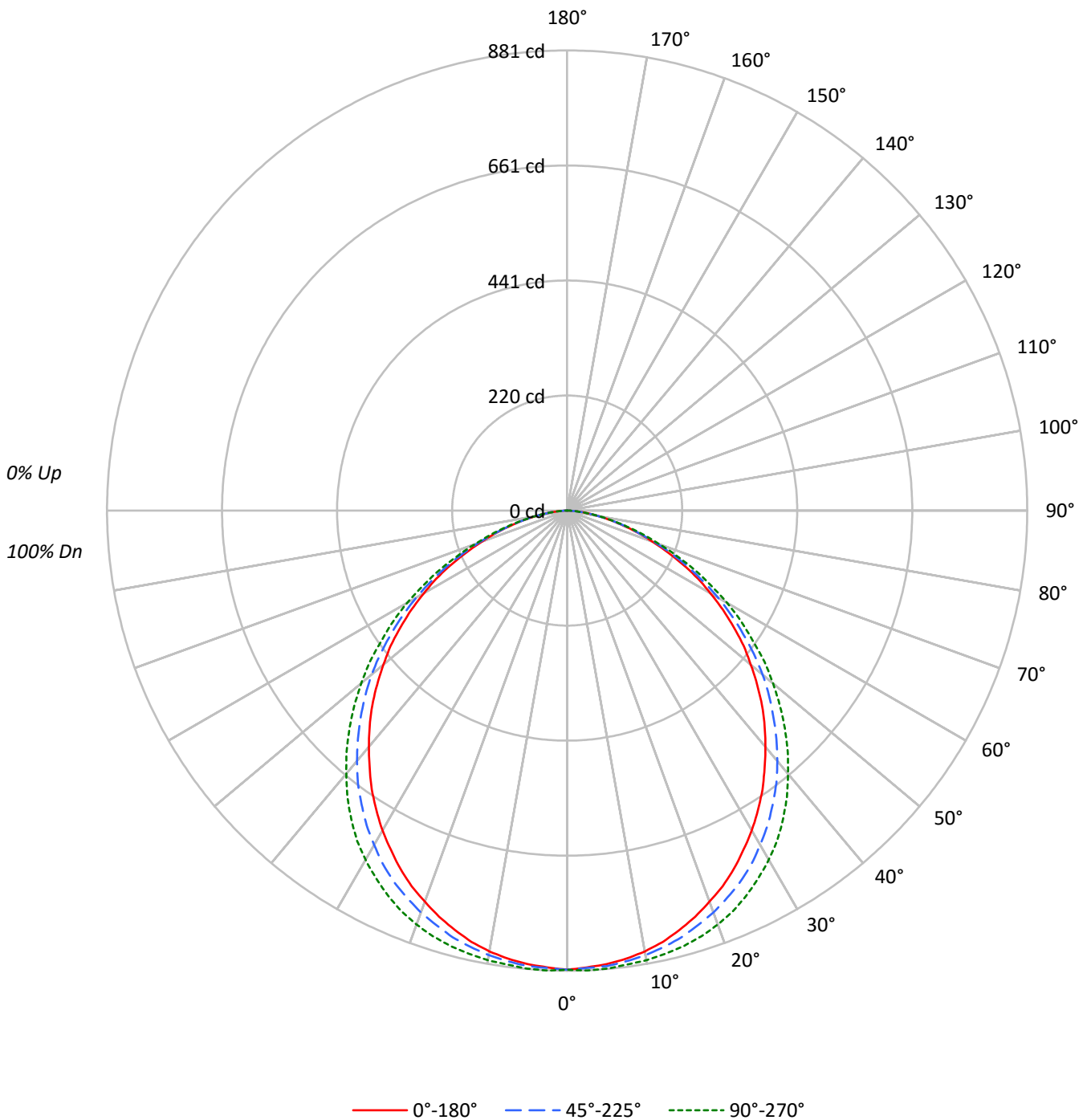
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2365	2365	2365
5°	2354	2364	2378
10°	2341	2362	2388
15°	2315	2356	2404
20°	2281	2345	2415
25°	2245	2329	2413
30°	2197	2296	2399
35°	2142	2255	2367
40°	2074	2199	2311
45°	2009	2126	2243
50°	1922	2045	2153
55°	1826	1930	2033
60°	1704	1797	1903
65°	1556	1626	1720
70°	1362	1420	1478
75°	1161	1187	1238
80°	933	951	970
85°	682	645	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.6
10°-20°	238.8	10.3
20°-30°	361.0	15.6
30°-40°	428.8	18.5
40°-50°	430.5	18.6
50°-60°	367.7	15.9
60°-70°	253.3	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°	683.0	29.5
0°-40°	1111.8	48.1
0°-60°	1909.9	82.6
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	872	872	875	878	880	83
15°	831	835	846	857	863	234
25°	756	762	784	805	813	348
35°	652	662	686	712	721	407
45°	528	535	559	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°	879.0	879.0	879.0	879.0	879.0
2.5°	875.3	875.3	876.5	880.2	881.4
5°	871.6	871.6	875.3	877.8	880.2
7.5°	865.5	866.7	870.4	875.3	876.5
10°	856.9	858.1	864.3	870.4	874.1
12.5°	845.8	848.3	855.7	865.5	869.2
15°	831.1	834.8	845.8	856.9	863.0
17.5°	815.2	820.1	832.3	848.3	854.4
20°	796.7	802.9	818.8	836.0	843.4
22.5°	778.3	783.2	801.7	821.3	829.9
25°	756.2	762.4	784.5	805.3	812.7
27.5°	731.7	740.3	763.6	785.7	793.1
30°	707.1	714.5	739.0	763.6	772.2
32.5°	680.1	687.5	714.5	739.0	748.9
35°	651.9	661.7	686.3	712.0	720.6
37.5°	621.2	632.2	658.0	680.1	691.2
40°	590.5	600.3	626.1	649.4	658.0
42.5°	559.8	568.4	593.0	617.5	624.9
45°	527.9	535.3	558.6	581.9	589.3
47.5°	493.5	502.1	524.2	543.8	552.4
50°	459.1	467.7	488.6	507.0	514.4
52.5°	426.0	430.9	450.5	467.7	476.3
55°	389.2	395.3	411.3	428.4	433.4
57.5°	353.6	357.2	373.2	387.9	395.3
60°	316.7	319.2	333.9	345.0	353.6
62.5°	282.4	282.4	293.4	305.7	310.6
65°	244.3	244.3	255.3	266.4	270.1
67.5°	207.5	209.9	217.3	225.9	228.3
70°	173.1	173.1	180.5	186.6	187.8
72.5°	142.4	141.2	144.9	149.8	152.2
75°	111.7	109.3	114.2	116.6	119.1
77.5°	84.7	83.5	85.9	88.4	88.4
80°	60.2	58.9	61.4	61.4	62.6
82.5°	39.3	40.5	40.5	39.3	38.1
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)