

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: P297975

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297975
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-25L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2281.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

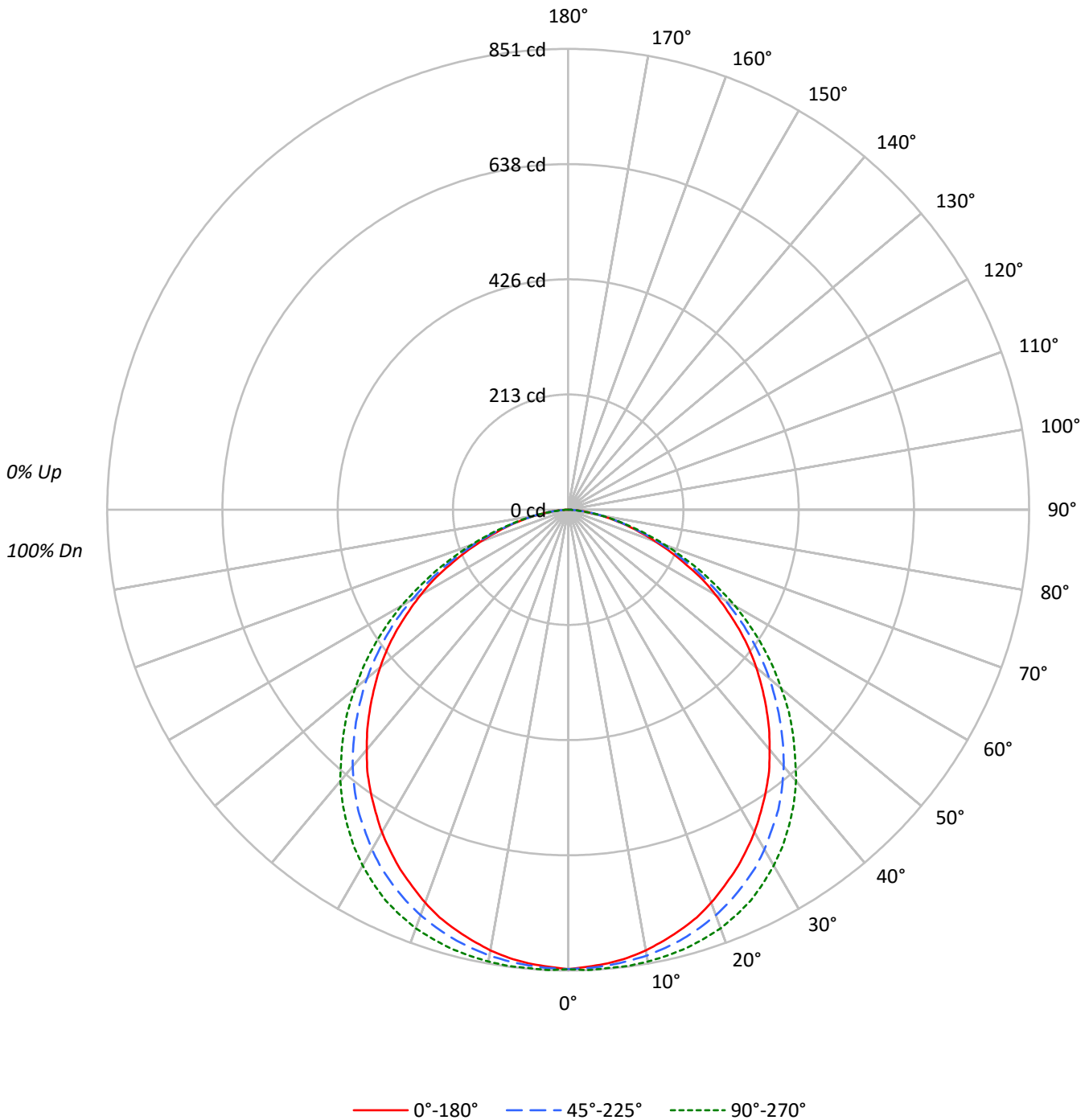
Input Watts (W): 18.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2283	2283	2283
5°	2272	2282	2295
10°	2258	2285	2315
15°	2237	2285	2336
20°	2212	2282	2356
25°	2176	2271	2366
30°	2137	2251	2358
35°	2089	2222	2335
40°	2031	2174	2299
45°	1967	2107	2234
50°	1897	2030	2148
55°	1809	1930	2051
60°	1692	1798	1917
65°	1532	1626	1727
70°	1352	1420	1497
75°	1161	1187	1238
80°	933	951	970
85°	682	605	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.5
10°-20°	231.6	10.2
20°-30°	352.3	15.4
30°-40°	421.5	18.5
40°-50°	426.1	18.7
50°-60°	366.7	16.1
60°-70°	253.1	11.1
70°-80°	122.8	5.4
80°-90°	26.6	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°	664.3	29.1
0°-40°	1085.7	47.6
0°-60°	1878.5	82.4
0°-90°	2281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	841	842	845	848	850	80
15°	803	808	820	832	839	227
25°	733	742	765	788	797	337
35°	636	647	676	701	711	398
45°	517	527	554	577	587	399
55°	386	392	411	430	437	344
65°	241	244	255	266	271	239
75°	112	109	114	118	119	119
85°	22	22	20	20	20	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.4	848.4	848.4	848.4	848.4
2.5°	844.7	844.7	847.2	849.6	850.9
5°	841.0	842.3	844.7	848.4	849.6
7.5°	834.9	836.1	841.0	847.2	849.6
10°	826.3	828.8	836.1	843.5	847.2
12.5°	815.2	820.2	828.8	838.6	843.5
15°	803.0	807.9	820.2	832.4	838.6
17.5°	789.5	794.4	809.1	825.1	831.2
20°	772.3	779.6	796.8	815.2	822.6
22.5°	752.6	762.5	782.1	801.7	810.3
25°	733.0	741.6	764.9	788.2	796.8
27.5°	710.9	720.7	746.5	769.8	778.4
30°	687.6	697.4	724.4	750.2	758.8
32.5°	661.8	674.1	699.8	726.8	736.7
35°	636.0	647.0	676.5	701.1	710.9
37.5°	609.0	618.8	648.3	674.1	683.9
40°	578.3	589.3	618.8	644.6	654.4
42.5°	548.8	559.9	586.9	611.4	620.0
45°	516.9	526.7	553.7	577.1	586.9
47.5°	485.0	496.0	519.4	542.7	552.5
50°	453.1	461.6	485.0	507.1	513.2
52.5°	419.9	427.3	448.1	467.8	476.4
55°	385.5	391.7	411.3	429.7	437.1
57.5°	348.7	356.1	374.5	388.0	396.6
60°	314.3	318.0	334.0	347.5	356.1
62.5°	279.9	281.2	293.4	306.9	311.9
65°	240.6	244.3	255.4	266.4	271.3
67.5°	205.0	208.7	217.3	225.9	229.6
70°	171.9	171.9	180.5	186.6	190.3
72.5°	138.7	140.0	146.1	149.8	153.5
75°	111.7	109.3	114.2	117.9	119.1
77.5°	83.5	82.3	85.9	87.2	89.6
80°	60.2	60.2	61.4	62.6	62.6
82.5°	39.3	39.3	40.5	38.1	36.8
85°	22.1	22.1	19.6	19.6	19.6
87.5°	7.4	7.4	7.4	8.6	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)