

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: P298109

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298109
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-31L92765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2762.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

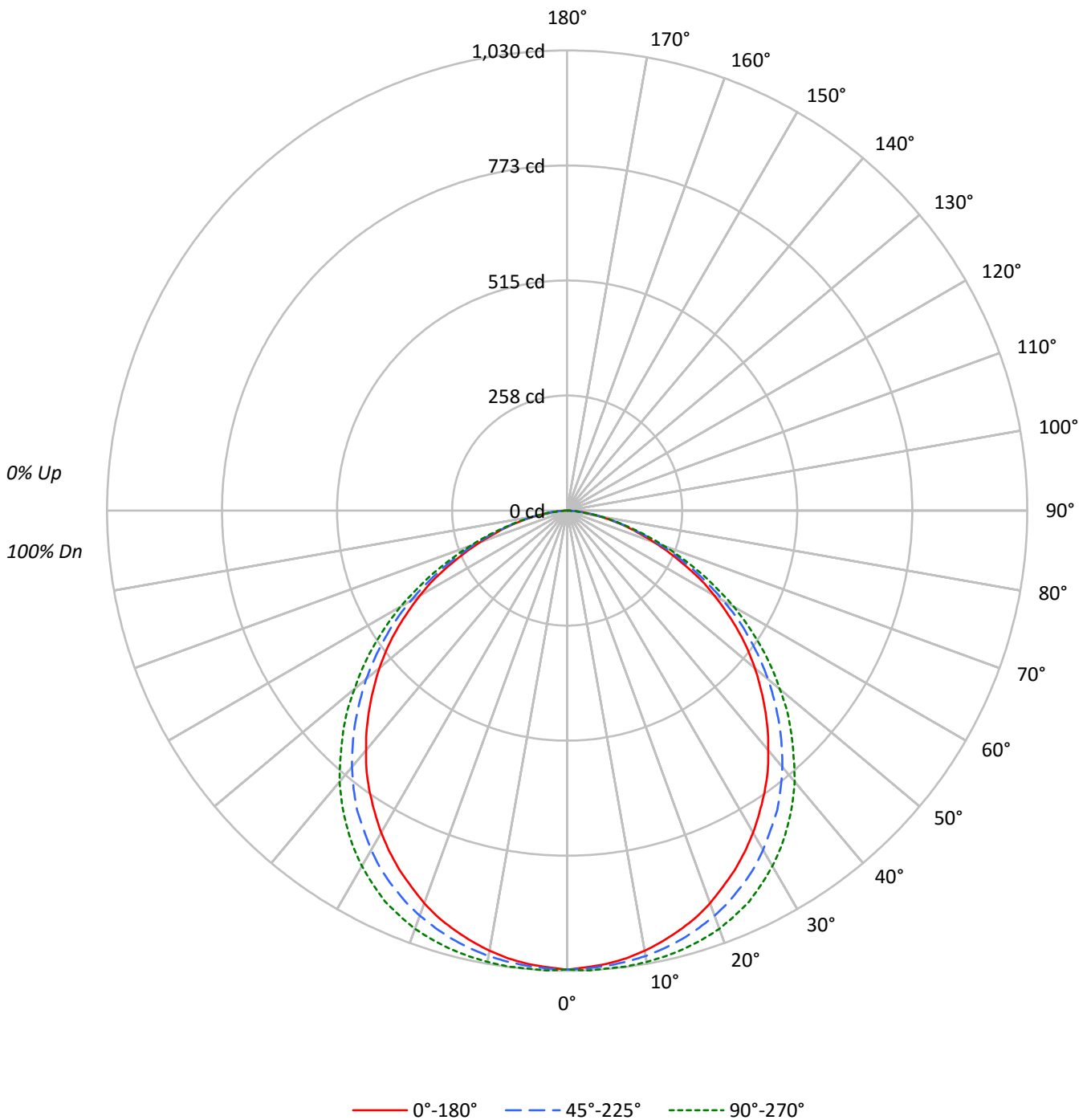
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2764	2764	2764
5°	2751	2763	2779
10°	2734	2766	2803
15°	2709	2767	2829
20°	2678	2763	2853
25°	2635	2750	2865
30°	2587	2725	2855
35°	2530	2691	2828
40°	2460	2632	2784
45°	2382	2552	2704
50°	2297	2458	2601
55°	2190	2336	2483
60°	2048	2176	2320
65°	1855	1969	2092
70°	1637	1719	1813
75°	1407	1438	1499
80°	1128	1151	1175
85°	827	735	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.5
10°-20°	280.4	10.2
20°-30°	426.6	15.4
30°-40°	510.3	18.5
40°-50°	515.9	18.7
50°-60°	444.0	16.1
60°-70°	306.5	11.1
70°-80°	148.6	5.4
80°-90°	32.2	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°	804.3	29.1
0°-40°	1314.7	47.6
0°-60°	2274.6	82.4
0°-90°	2762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1018	1020	1023	1027	1029	97
15°	972	978	993	1008	1015	274
25°	888	898	926	954	965	409
35°	770	784	819	849	861	481
45°	626	638	670	699	711	483
55°	467	474	498	520	529	416
65°	291	296	309	323	329	290
75°	135	132	138	143	144	144
85°	27	27	24	24	24	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.3	1027.3	1027.3	1027.3	1027.3
2.5°	1022.8	1022.8	1025.8	1028.8	1030.3
5°	1018.4	1019.9	1022.8	1027.3	1028.8
7.5°	1010.9	1012.4	1018.4	1025.8	1028.8
10°	1000.5	1003.5	1012.4	1021.4	1025.8
12.5°	987.2	993.1	1003.5	1015.4	1021.4
15°	972.3	978.2	993.1	1008.0	1015.4
17.5°	955.9	961.9	979.7	999.1	1006.5
20°	935.1	944.0	964.9	987.2	996.1
22.5°	911.3	923.2	947.0	970.8	981.2
25°	887.6	898.0	926.2	954.5	964.9
27.5°	860.8	872.7	903.9	932.2	942.6
30°	832.5	844.4	877.1	908.4	918.8
32.5°	801.3	816.2	847.4	880.1	892.0
35°	770.1	783.5	819.2	848.9	860.8
37.5°	737.4	749.3	785.0	816.2	828.1
40°	700.2	713.6	749.3	780.5	792.4
42.5°	664.5	677.9	710.6	740.4	750.8
45°	625.9	637.8	670.5	698.7	710.6
47.5°	587.2	600.6	628.9	657.1	669.0
50°	548.6	559.0	587.2	614.0	621.4
52.5°	508.4	517.4	542.6	566.4	576.8
55°	466.8	474.3	498.0	520.3	529.3
57.5°	422.2	431.1	453.4	469.8	480.2
60°	380.6	385.1	404.4	420.7	431.1
62.5°	339.0	340.5	355.3	371.7	377.6
65°	291.4	295.9	309.2	322.6	328.6
67.5°	248.3	252.7	263.1	273.6	278.0
70°	208.1	208.1	218.5	226.0	230.4
72.5°	168.0	169.5	176.9	181.4	185.8
75°	135.3	132.3	138.3	142.7	144.2
77.5°	101.1	99.6	104.1	105.6	108.5
80°	72.8	72.8	74.3	75.8	75.8
82.5°	47.6	47.6	49.1	46.1	44.6
85°	26.8	26.8	23.8	23.8	23.8
87.5°	8.9	8.9	8.9	10.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)