

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: P297982

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297982
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-31L83050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3085.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

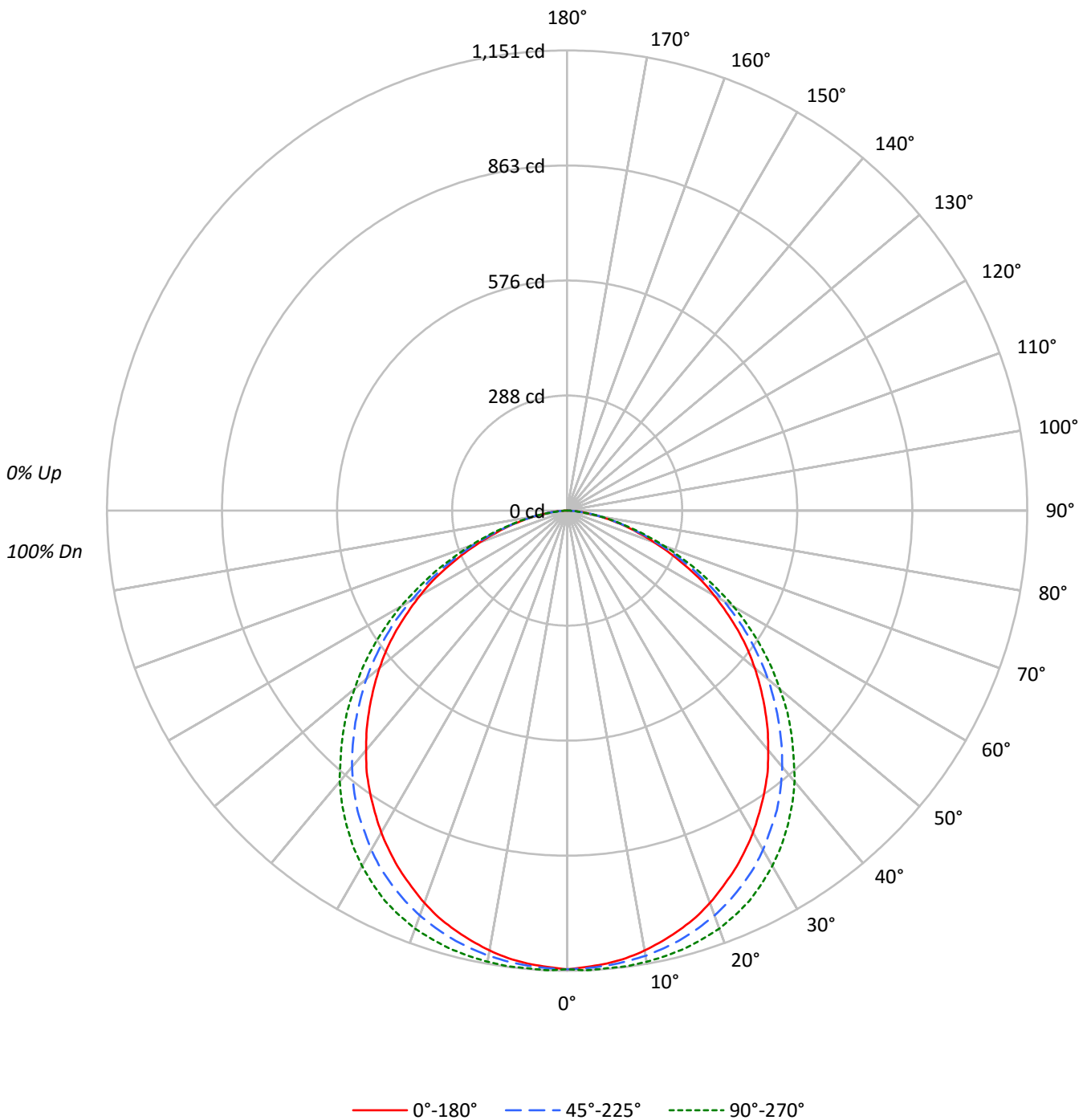
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3088	3088	3088
5°	3073	3086	3104
10°	3054	3090	3131
15°	3025	3090	3160
20°	2991	3086	3186
25°	2943	3072	3200
30°	2889	3044	3189
35°	2826	3006	3159
40°	2747	2940	3109
45°	2661	2850	3021
50°	2565	2746	2906
55°	2446	2610	2774
60°	2288	2431	2592
65°	2073	2199	2337
70°	1829	1921	2025
75°	1571	1605	1675
80°	1261	1286	1313
85°	923	821	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.5
10°-20°	313.2	10.2
20°-30°	476.4	15.4
30°-40°	570.0	18.5
40°-50°	576.3	18.7
50°-60°	495.9	16.1
60°-70°	342.4	11.1
70°-80°	166.0	5.4
80°-90°	36.0	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°	898.4	29.1
0°-40°	1468.4	47.6
0°-60°	2540.6	82.4
0°-90°	3085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1138	1139	1142	1147	1149	108
15°	1086	1093	1109	1126	1134	306
25°	991	1003	1034	1066	1078	456
35°	860	875	915	948	962	538
45°	699	712	749	780	794	539
55°	521	530	556	581	591	465
65°	326	330	345	360	367	324
75°	151	148	154	159	161	160
85°	30	30	27	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.4	1147.4	1147.4	1147.4	1147.4
2.5°	1142.5	1142.5	1145.8	1149.1	1150.8
5°	1137.5	1139.1	1142.5	1147.4	1149.1
7.5°	1129.2	1130.8	1137.5	1145.8	1149.1
10°	1117.5	1120.9	1130.8	1140.8	1145.8
12.5°	1102.6	1109.2	1120.9	1134.2	1140.8
15°	1086.0	1092.6	1109.2	1125.9	1134.2
17.5°	1067.7	1074.4	1094.3	1115.9	1124.2
20°	1044.5	1054.4	1077.7	1102.6	1112.6
22.5°	1017.9	1031.2	1057.8	1084.3	1096.0
25°	991.3	1003.0	1034.5	1066.1	1077.7
27.5°	961.5	974.7	1009.6	1041.2	1052.8
30°	929.9	943.2	979.7	1014.6	1026.2
32.5°	895.0	911.6	946.5	983.0	996.3
35°	860.2	875.1	915.0	948.2	961.5
37.5°	823.6	836.9	876.8	911.6	924.9
40°	782.1	797.1	836.9	871.8	885.1
42.5°	742.3	757.2	793.7	827.0	838.6
45°	699.1	712.4	748.9	780.5	793.7
47.5°	655.9	670.9	702.4	734.0	747.2
50°	612.7	624.4	655.9	685.8	694.1
52.5°	567.9	577.9	606.1	632.7	644.3
55°	521.4	529.7	556.3	581.2	591.2
57.5°	471.6	481.6	506.5	524.7	536.4
60°	425.1	430.1	451.7	469.9	481.6
62.5°	378.6	380.3	396.9	415.1	421.8
65°	325.5	330.4	345.4	360.3	367.0
67.5°	277.3	282.3	293.9	305.5	310.5
70°	232.5	232.5	244.1	252.4	257.4
72.5°	187.6	189.3	197.6	202.6	207.6
75°	151.1	147.8	154.4	159.4	161.1
77.5°	112.9	111.3	116.2	117.9	121.2
80°	81.4	81.4	83.0	84.7	84.7
82.5°	53.1	53.1	54.8	51.5	49.8
85°	29.9	29.9	26.6	26.6	26.6
87.5°	10.0	10.0	10.0	11.6	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)