

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: P297981

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297981
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

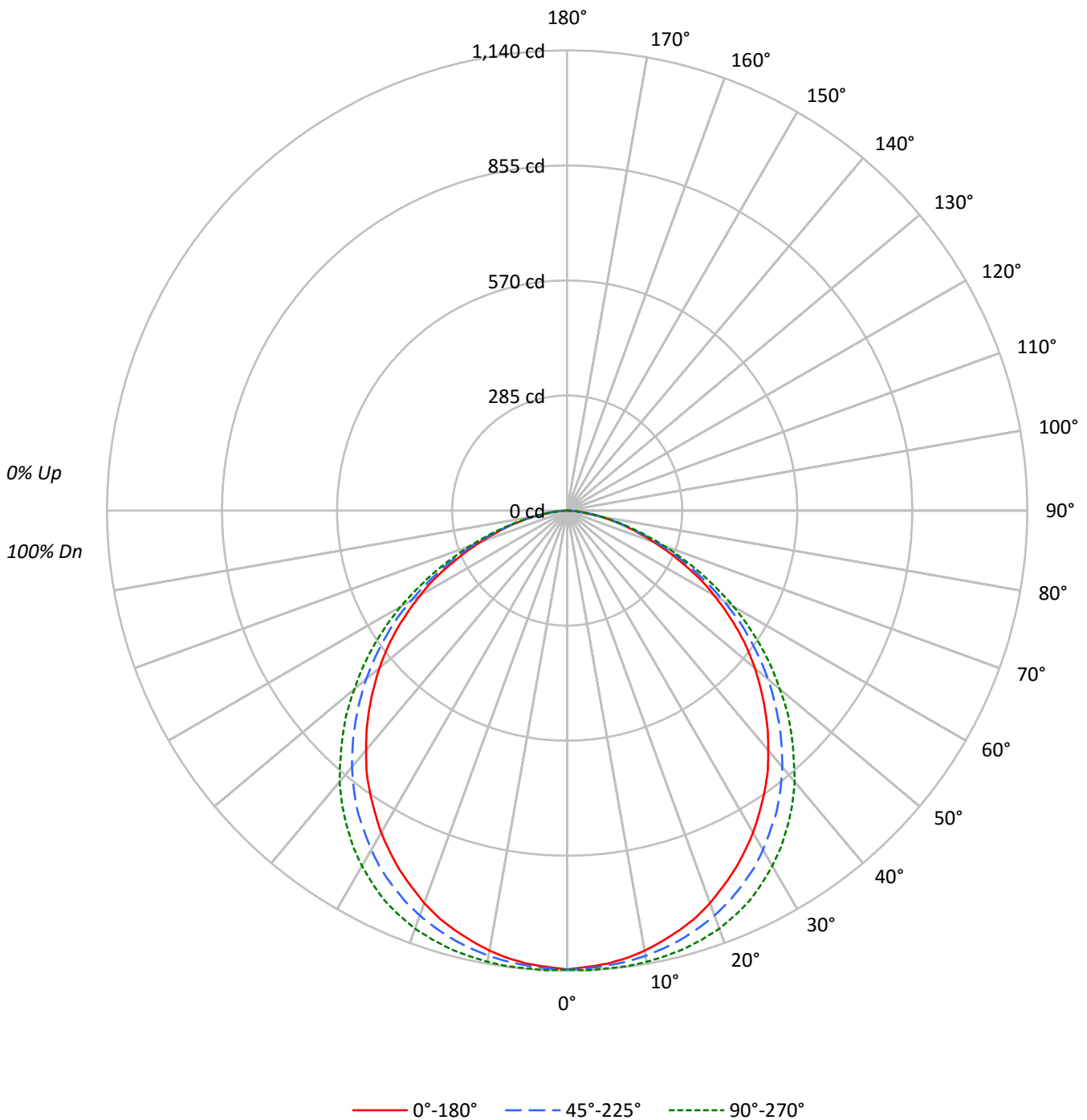
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3059	3059	3059
5°	3044	3057	3075
10°	3025	3061	3101
15°	2997	3061	3130
20°	2963	3057	3156
25°	2916	3043	3170
30°	2862	3016	3159
35°	2799	2978	3129
40°	2722	2912	3080
45°	2635	2823	2992
50°	2541	2720	2879
55°	2423	2586	2747
60°	2266	2408	2567
65°	2053	2178	2315
70°	1812	1902	2006
75°	1556	1591	1659
80°	1249	1274	1300
85°	914	812	812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.5
10°-20°	310.3	10.2
20°-30°	472.0	15.4
30°-40°	564.7	18.5
40°-50°	570.9	18.7
50°-60°	491.2	16.1
60°-70°	339.2	11.1
70°-80°	164.5	5.4
80°-90°	35.7	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°	890.0	29.1
0°-40°	1454.6	47.6
0°-60°	2516.7	82.4
0°-90°	3056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1127	1128	1132	1137	1138	107
15°	1076	1082	1099	1115	1124	303
25°	982	994	1025	1056	1068	452
35°	852	867	906	939	952	533
45°	692	706	742	773	786	534
55°	516	525	551	576	586	461
65°	322	327	342	357	364	321
75°	150	146	153	158	160	159
85°	30	30	26	26	26	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1136.7	1136.7	1136.7	1136.7	<i>1136.7</i>
2.5°	<i>1131.7</i>	<i>1131.7</i>	<i>1135.0</i>	<i>1138.3</i>	<i>1139.9</i>
5°	1126.8	1128.4	1131.7	1136.7	<i>1138.3</i>
7.5°	1118.6	1120.2	1126.8	1135.0	<i>1138.3</i>
10°	1107.0	1110.3	1120.2	1130.1	<i>1135.0</i>
12.5°	1092.2	1098.8	1110.3	1123.5	<i>1130.1</i>
15°	1075.8	1082.4	1098.8	1115.3	<i>1123.5</i>
17.5°	1057.7	1064.3	1084.0	1105.4	<i>1113.6</i>
20°	1034.7	1044.5	1067.6	1092.2	<i>1102.1</i>
22.5°	1008.3	1021.5	1047.8	1074.1	<i>1085.7</i>
25°	982.0	993.5	1024.8	1056.1	<i>1067.6</i>
27.5°	952.4	965.6	1000.1	1031.4	<i>1042.9</i>
30°	921.2	934.3	970.5	1005.1	<i>1016.6</i>
32.5°	886.6	903.1	937.6	973.8	<i>987.0</i>
35°	852.1	866.9	906.4	939.3	<i>952.4</i>
37.5°	815.9	829.0	868.5	903.1	<i>916.2</i>
40°	774.8	789.6	829.0	863.6	<i>876.8</i>
42.5°	735.3	750.1	786.3	819.2	<i>830.7</i>
45°	692.5	705.7	741.9	773.1	<i>786.3</i>
47.5°	649.8	664.6	695.8	727.1	<i>740.2</i>
50°	607.0	618.5	649.8	679.4	<i>687.6</i>
52.5°	562.6	572.4	600.4	626.7	<i>638.2</i>
55°	516.5	524.7	551.1	575.7	<i>585.6</i>
57.5°	467.2	477.0	501.7	519.8	<i>531.3</i>
60°	421.1	426.0	447.4	465.5	<i>477.0</i>
62.5°	375.0	376.7	393.1	411.2	<i>417.8</i>
65°	322.4	327.3	342.1	357.0	<i>363.5</i>
67.5°	274.7	279.6	291.2	302.7	<i>307.6</i>
70°	230.3	230.3	241.8	250.0	<i>255.0</i>
72.5°	185.9	187.5	195.7	200.7	<i>205.6</i>
75°	149.7	146.4	153.0	157.9	<i>159.6</i>
77.5°	111.9	110.2	115.1	116.8	<i>120.1</i>
80°	80.6	80.6	82.2	83.9	<i>83.9</i>
82.5°	52.6	52.6	54.3	51.0	<i>49.3</i>
85°	29.6	29.6	26.3	26.3	<i>26.3</i>
87.5°	9.9	9.9	9.9	11.5	<i>9.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)