

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: P298020

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298020
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-31L82765-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: 2905.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

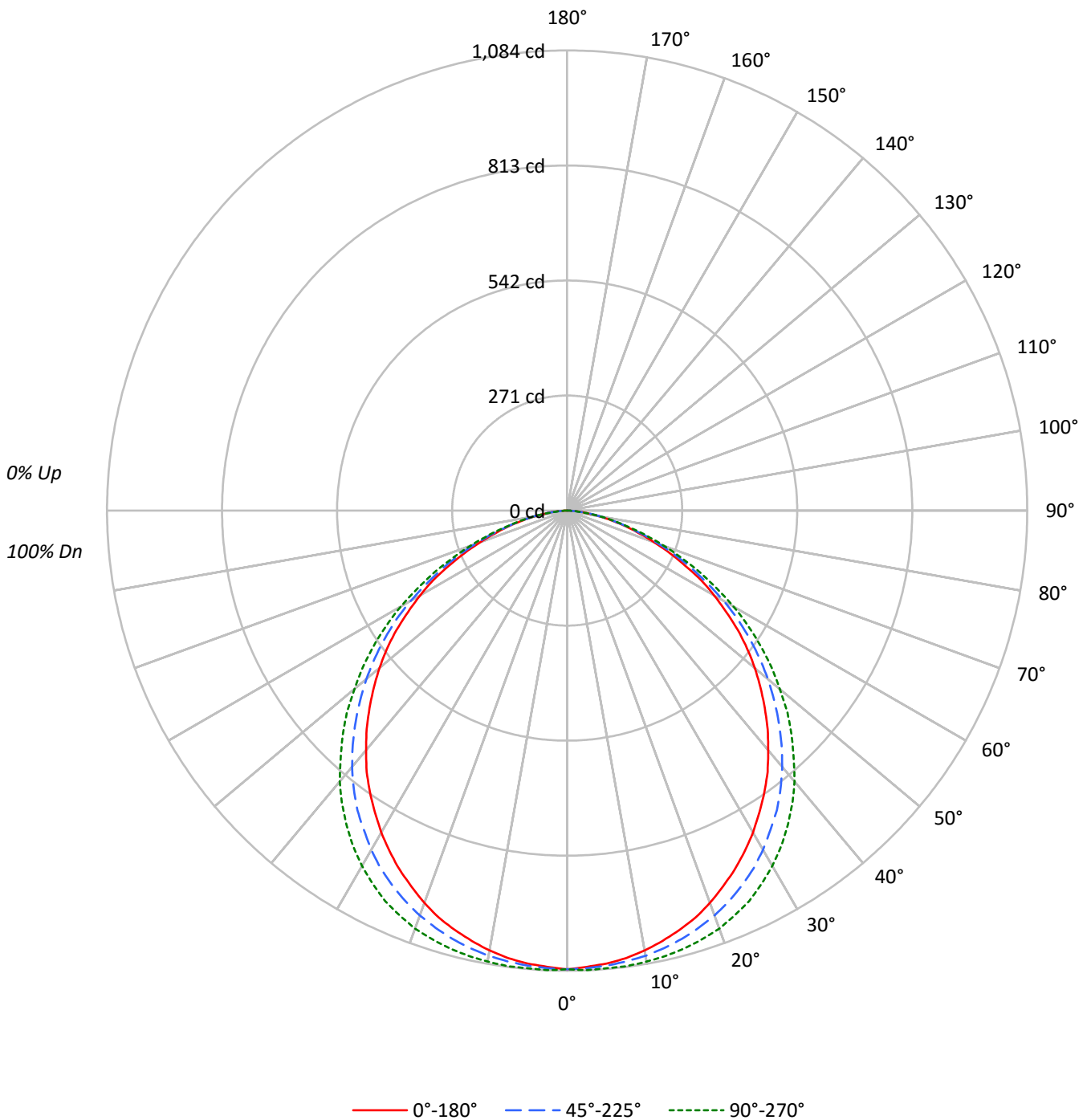
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2908	2908	2908
5°	2893	2906	2923
10°	2875	2910	2948
15°	2849	2910	2975
20°	2816	2906	3000
25°	2772	2893	3013
30°	2721	2867	3003
35°	2661	2830	2974
40°	2587	2768	2928
45°	2505	2684	2844
50°	2416	2586	2736
55°	2304	2457	2612
60°	2154	2289	2441
65°	1952	2071	2201
70°	1722	1809	1907
75°	1480	1512	1577
80°	1187	1212	1235
85°	868	772	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.5
10°-20°	295.0	10.2
20°-30°	448.6	15.4
30°-40°	536.8	18.5
40°-50°	542.6	18.7
50°-60°	467.0	16.1
60°-70°	322.4	11.1
70°-80°	156.3	5.4
80°-90°	33.9	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°	846.0	29.1
0°-40°	1382.8	47.6
0°-60°	2392.4	82.4
0°-90°	2905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1071	1073	1076	1080	1082	102
15°	1023	1029	1044	1060	1068	288
25°	934	944	974	1004	1015	430
35°	810	824	862	893	905	506
45°	658	671	705	735	747	508
55°	491	499	524	547	557	438
65°	306	311	325	339	346	305
75°	142	139	145	150	152	151
85°	28	28	25	25	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.5	1080.5	1080.5	1080.5	1080.5
2.5°	1075.8	1075.8	1078.9	1082.1	1083.6
5°	1071.1	1072.7	1075.8	1080.5	1082.1
7.5°	1063.3	1064.9	1071.1	1078.9	1082.1
10°	1052.3	1055.5	1064.9	1074.2	1078.9
12.5°	1038.3	1044.5	1055.5	1068.0	1074.2
15°	1022.6	1028.9	1044.5	1060.2	1068.0
17.5°	1005.4	1011.7	1030.5	1050.8	1058.6
20°	983.5	992.9	1014.8	1038.3	1047.7
22.5°	958.5	971.0	996.1	1021.1	1032.0
25°	933.5	944.5	974.2	1003.9	1014.8
27.5°	905.4	917.9	950.7	980.4	991.4
30°	875.6	888.2	922.6	955.4	966.3
32.5°	842.8	858.4	891.3	925.7	938.2
35°	810.0	824.0	861.6	892.9	905.4
37.5°	775.6	788.1	825.6	858.4	871.0
40°	736.5	750.6	788.1	820.9	833.4
42.5°	699.0	713.0	747.4	778.7	789.6
45°	658.3	670.8	705.2	734.9	747.4
47.5°	617.6	631.7	661.4	691.1	703.6
50°	577.0	587.9	617.6	645.8	653.6
52.5°	534.8	544.2	570.7	595.8	606.7
55°	491.0	498.8	523.8	547.3	556.7
57.5°	444.1	453.5	476.9	494.1	505.1
60°	400.3	405.0	425.3	442.5	453.5
62.5°	356.5	358.1	373.7	390.9	397.2
65°	306.5	311.2	325.2	339.3	345.6
67.5°	261.1	265.8	276.8	287.7	292.4
70°	218.9	218.9	229.9	237.7	242.4
72.5°	176.7	178.3	186.1	190.8	195.5
75°	142.3	139.2	145.4	150.1	151.7
77.5°	106.3	104.8	109.5	111.0	114.1
80°	76.6	76.6	78.2	79.7	79.7
82.5°	50.0	50.0	51.6	48.5	46.9
85°	28.1	28.1	25.0	25.0	25.0
87.5°	9.4	9.4	9.4	10.9	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)