

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: P297980

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297980
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-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: 2910.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

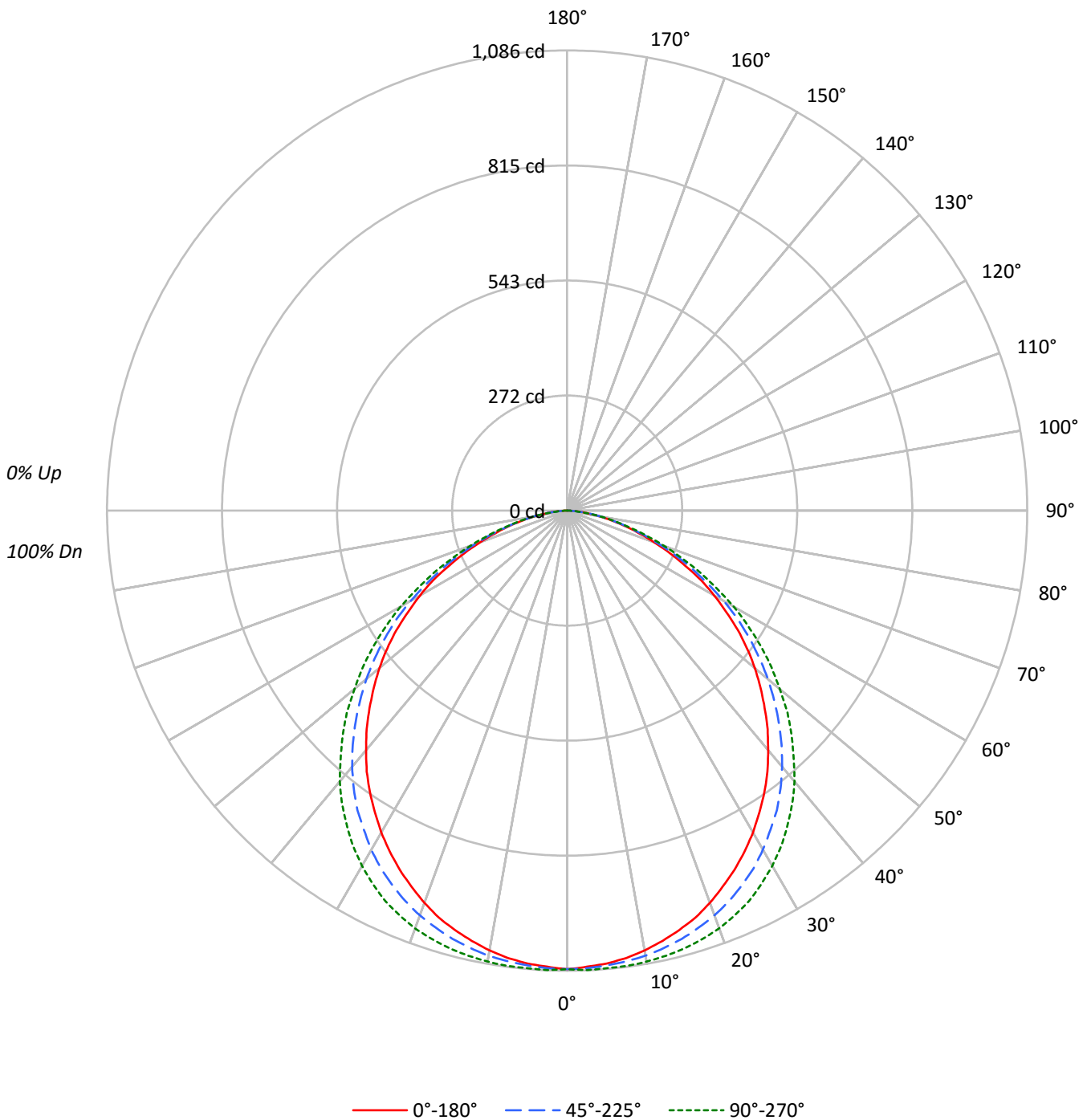
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297980

CATALOG NUMBER: D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P297980

CATALOG NUMBER: D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3500K

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°	2912	2912	2912
5°	2898	2911	2928
10°	2881	2915	2953
15°	2854	2915	2980
20°	2821	2911	3005
25°	2776	2897	3018
30°	2726	2871	3008
35°	2666	2835	2979
40°	2592	2773	2933
45°	2509	2688	2849
50°	2420	2590	2741
55°	2307	2462	2616
60°	2158	2293	2444
65°	1955	2074	2204
70°	1725	1812	1910
75°	1482	1515	1579
80°	1190	1213	1238
85°	871	775	775



TEST NUMBER: P297980

CATALOG NUMBER: D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.5
10°-20°	295.5	10.2
20°-30°	449.4	15.4
30°-40°	537.7	18.5
40°-50°	543.6	18.7
50°-60°	467.8	16.1
60°-70°	323.0	11.1
70°-80°	156.6	5.4
80°-90°	34.0	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°	847.4	29.1
0°-40°	1385.1	47.6
0°-60°	2396.5	82.4
0°-90°	2910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1073	1074	1078	1082	1084	102
15°	1024	1031	1046	1062	1070	289
25°	935	946	976	1006	1017	431
35°	811	826	863	894	907	507
45°	659	672	706	736	749	509
55°	492	500	525	548	558	438
65°	307	312	326	340	346	306
75°	142	139	146	150	152	151
85°	28	28	25	25	25	34
90°	0	0	0	0	0	



TEST NUMBER: P297980

CATALOG NUMBER: D3X-WD-31L83050-LD5-UNV-22-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.3	1082.3	1082.3	1082.3	1082.3
2.5°	1077.6	1077.6	1080.8	1083.9	1085.5
5°	1073.0	1074.5	1077.6	1082.3	1083.9
7.5°	1065.1	1066.7	1073.0	1080.8	1083.9
10°	1054.2	1057.3	1066.7	1076.1	1080.8
12.5°	1040.1	1046.3	1057.3	1069.8	1076.1
15°	1024.4	1030.7	1046.3	1062.0	1069.8
17.5°	1007.2	1013.4	1032.2	1052.6	1060.4
20°	985.2	994.6	1016.6	1040.1	1049.5
22.5°	960.2	972.7	997.8	1022.8	1033.8
25°	935.1	946.1	975.8	1005.6	1016.6
27.5°	906.9	919.4	952.3	982.1	993.1
30°	877.2	889.7	924.1	957.0	968.0
32.5°	844.3	859.9	892.8	927.3	939.8
35°	811.4	825.5	863.1	894.4	906.9
37.5°	776.9	789.4	827.0	859.9	872.5
40°	737.8	751.8	789.4	822.3	834.9
42.5°	700.2	714.3	748.7	780.0	791.0
45°	659.4	672.0	706.4	736.2	748.7
47.5°	618.7	632.8	662.6	692.3	704.9
50°	578.0	588.9	618.7	646.9	654.7
52.5°	535.7	545.1	571.7	596.8	607.7
55°	491.8	499.7	524.7	548.2	557.6
57.5°	444.8	454.2	477.7	495.0	505.9
60°	401.0	405.7	426.0	443.3	454.2
62.5°	357.1	358.7	374.4	391.6	397.9
65°	307.0	311.7	325.8	339.9	346.2
67.5°	261.6	266.3	277.2	288.2	292.9
70°	219.3	219.3	230.3	238.1	242.8
72.5°	177.0	178.6	186.4	191.1	195.8
75°	142.5	139.4	145.7	150.4	151.9
77.5°	106.5	104.9	109.6	111.2	114.3
80°	76.8	76.8	78.3	79.9	79.9
82.5°	50.1	50.1	51.7	48.6	47.0
85°	28.2	28.2	25.1	25.1	25.1
87.5°	9.4	9.4	9.4	11.0	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)