

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: P298315

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2972.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

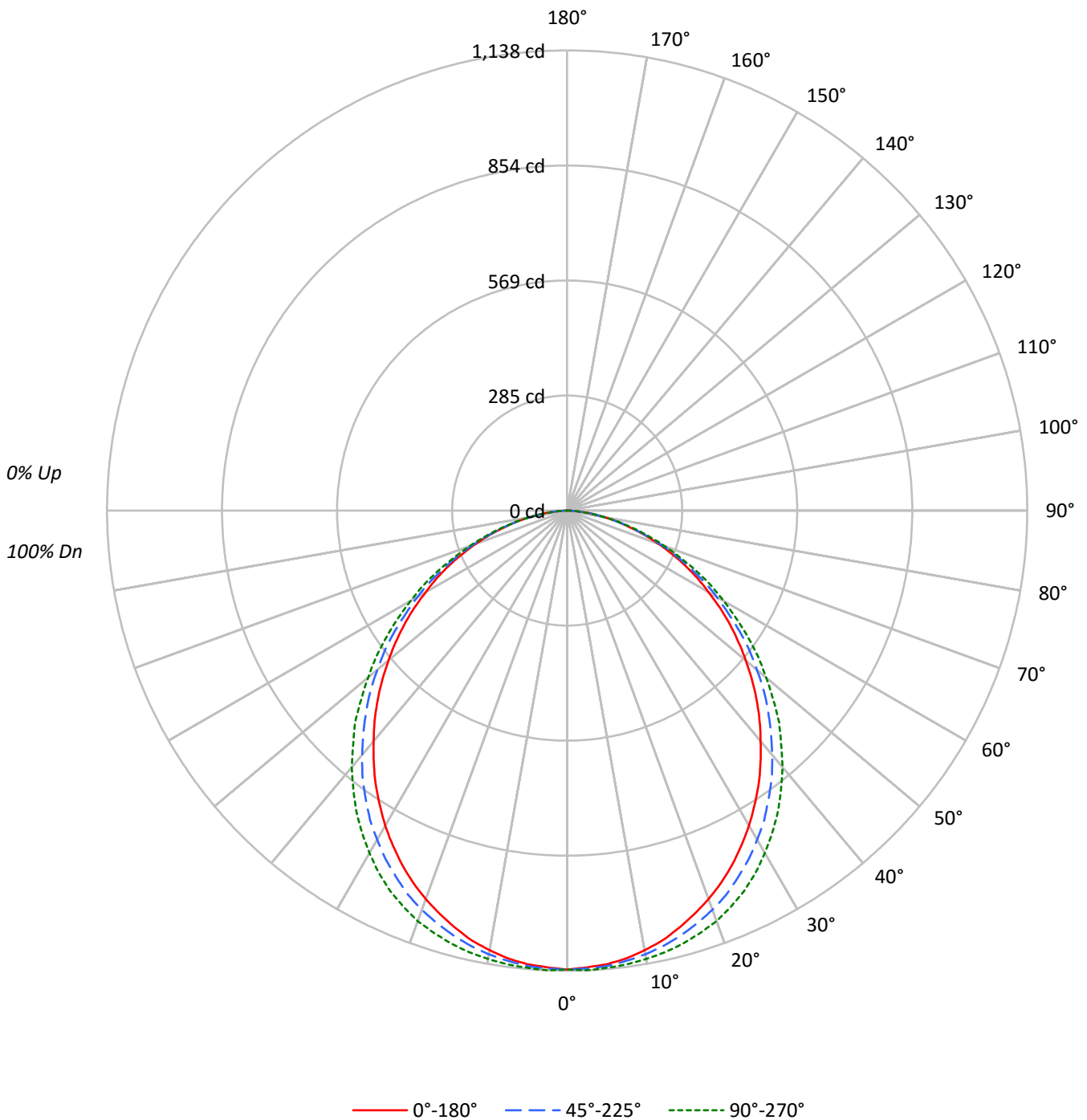
Input Watts (W): 24.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298315

CATALOG NUMBER: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P298315

CATALOG NUMBER: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3000K

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	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56		66	60	55		64	58	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	43	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3054	3054	3054
5°	3042	3054	3066
10°	3016	3045	3077
15°	2976	3030	3088
20°	2928	3009	3093
25°	2869	2970	3080
30°	2796	2920	3039
35°	2712	2853	2985
40°	2615	2771	2911
45°	2523	2675	2821
50°	2416	2565	2689
55°	2305	2444	2562
60°	2174	2302	2405
65°	2054	2129	2233
70°	1886	1944	2014
75°	1677	1723	1770
80°	1444	1421	1421
85°	1096	1007	914



TEST NUMBER: P298315

CATALOG NUMBER: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.6
10°-20°	306.9	10.3
20°-30°	460.8	15.5
30°-40°	542.3	18.2
40°-50°	540.9	18.2
50°-60°	464.2	15.6
60°-70°	332.4	11.2
70°-80°	176.0	5.9
80°-90°	41.2	1.4
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°	875.0	29.4
0°-40°	1417.3	47.7
0°-60°	2422.4	81.5
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1126	1126	1130	1134	1135	107
15°	1068	1073	1088	1102	1108	301
25°	966	975	1000	1026	1037	445
35°	826	836	869	898	909	516
45°	663	673	703	728	741	511
55°	491	499	521	539	546	439
65°	323	324	334	348	351	319
75°	161	161	166	169	170	173
85°	36	34	33	30	30	43
90°	0	0	0	0	0	



TEST NUMBER: P298315

CATALOG NUMBER: D3X-WO-31L83050-LD5-UNV-22-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.0	1135.0	1135.0	1135.0	<i>1135.0</i>
2.5°	<i>1130.5</i>	<i>1130.5</i>	<i>1133.5</i>	<i>1136.5</i>	<i>1137.9</i>
5°	1126.1	1126.1	1130.5	1133.5	<i>1135.0</i>
7.5°	1117.2	1117.2	1123.1	1129.1	<i>1132.0</i>
10°	1103.9	1106.9	1114.3	1123.1	<i>1126.1</i>
12.5°	1089.1	1092.1	1102.4	1114.3	<i>1118.7</i>
15°	1068.4	1072.8	1087.6	1102.4	<i>1108.3</i>
17.5°	1046.2	1052.1	1069.9	1087.6	<i>1095.0</i>
20°	1022.5	1028.4	1050.6	1071.4	<i>1080.2</i>
22.5°	995.9	1003.3	1028.4	1050.6	<i>1059.5</i>
25°	966.3	975.2	1000.3	1025.5	<i>1037.3</i>
27.5°	933.7	944.1	972.2	998.8	<i>1009.2</i>
30°	899.7	911.5	939.7	967.8	<i>978.1</i>
32.5°	862.7	873.1	907.1	933.7	<i>944.1</i>
35°	825.7	836.1	868.6	898.2	<i>908.6</i>
37.5°	785.8	799.1	831.6	858.3	<i>868.6</i>
40°	744.3	757.6	788.7	819.8	<i>828.7</i>
42.5°	704.4	716.2	745.8	773.9	<i>782.8</i>
45°	662.9	673.3	702.9	728.0	<i>741.4</i>
47.5°	620.0	630.4	660.0	683.7	<i>691.1</i>
50°	577.1	587.5	612.6	633.3	<i>642.2</i>
52.5°	534.2	544.6	568.2	587.5	<i>596.3</i>
55°	491.3	498.7	520.9	538.6	<i>546.0</i>
57.5°	448.4	454.3	472.0	491.3	<i>495.7</i>
60°	404.0	411.4	427.7	441.0	<i>446.9</i>
62.5°	364.0	367.0	381.8	393.6	<i>401.0</i>
65°	322.6	324.1	334.4	347.7	<i>350.7</i>
67.5°	279.7	281.2	291.5	298.9	<i>301.9</i>
70°	239.7	239.7	247.1	253.0	<i>256.0</i>
72.5°	201.2	199.8	204.2	210.1	<i>213.1</i>
75°	161.3	161.3	165.7	168.7	<i>170.2</i>
77.5°	127.3	124.3	127.3	130.2	<i>130.2</i>
80°	93.2	91.7	91.7	93.2	<i>91.7</i>
82.5°	63.6	62.2	63.6	60.7	<i>59.2</i>
85°	35.5	34.0	32.6	29.6	<i>29.6</i>
87.5°	11.8	10.4	10.4	11.8	<i>11.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)