

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: P298443

Luminaire Tested: **D3X-WO-31L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298443
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-31L92765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2952.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

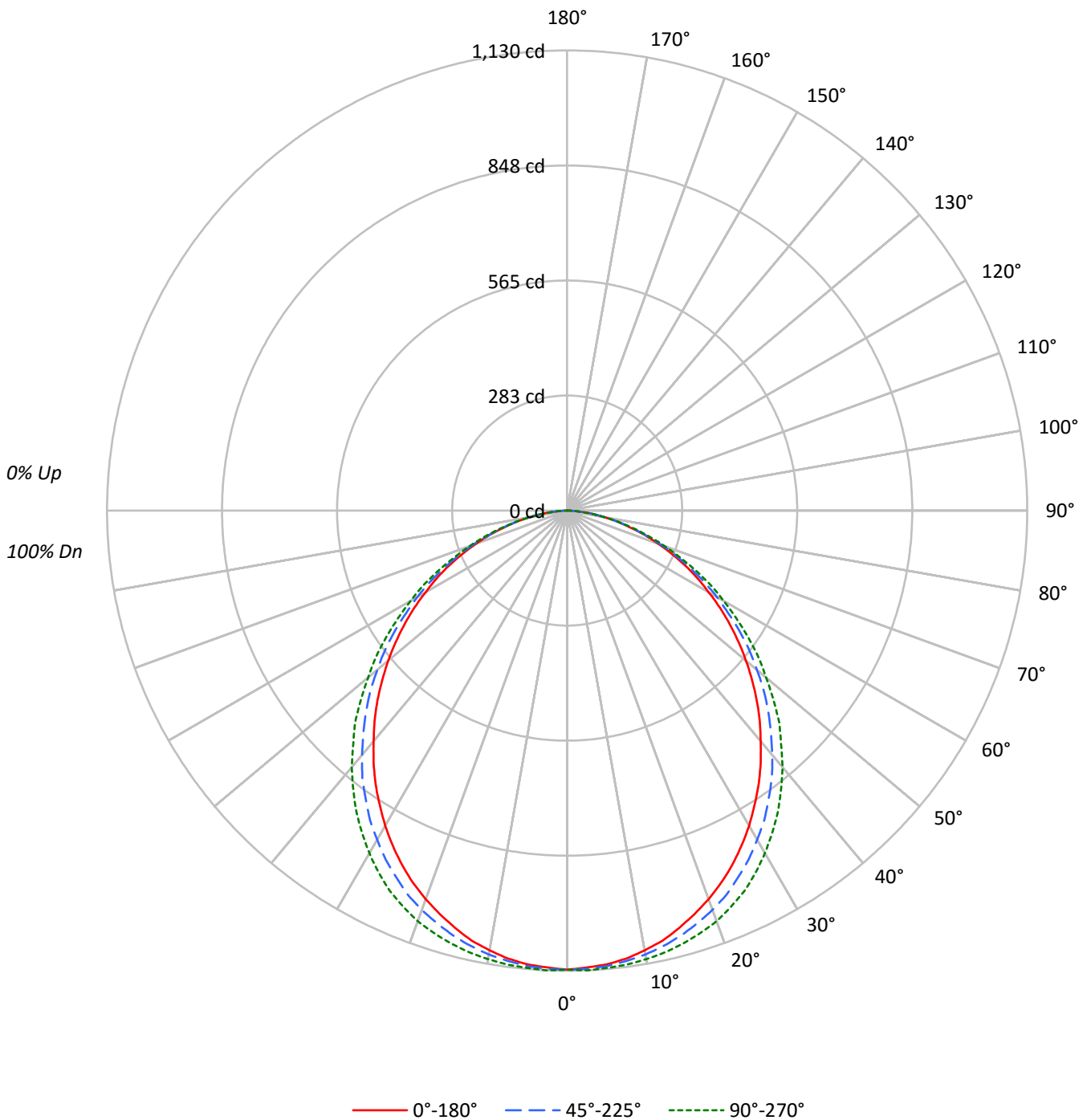
Input Watts (W): 25.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3034	3034	3034
5°	3021	3033	3045
10°	2996	3024	3056
15°	2956	3010	3067
20°	2908	2989	3073
25°	2850	2950	3059
30°	2777	2900	3019
35°	2694	2834	2965
40°	2597	2752	2891
45°	2506	2657	2802
50°	2400	2547	2671
55°	2289	2427	2545
60°	2160	2286	2389
65°	2040	2115	2218
70°	1873	1932	2001
75°	1666	1711	1757
80°	1435	1412	1412
85°	1090	997	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.6
10°-20°	304.8	10.3
20°-30°	457.7	15.5
30°-40°	538.6	18.2
40°-50°	537.3	18.2
50°-60°	461.0	15.6
60°-70°	330.2	11.2
70°-80°	174.9	5.9
80°-90°	40.9	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°	869.1	29.4
0°-40°	1407.8	47.7
0°-60°	2406.1	81.5
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1118	1118	1123	1126	1127	106
15°	1061	1066	1080	1095	1101	299
25°	960	969	994	1019	1030	442
35°	820	830	863	892	902	512
45°	658	669	698	723	736	507
55°	488	495	517	535	542	436
65°	320	322	332	345	348	316
75°	160	160	165	168	169	172
85°	35	34	32	29	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1122.9	1122.9	1125.9	1128.8	1130.3
5°	1118.5	1118.5	1122.9	1125.9	1127.3
7.5°	1109.7	1109.7	1115.6	1121.5	1124.4
10°	1096.5	1099.4	1106.8	1115.6	1118.5
12.5°	1081.8	1084.7	1095.0	1106.8	1111.2
15°	1061.2	1065.6	1080.3	1095.0	1100.9
17.5°	1039.2	1045.0	1062.7	1080.3	1087.7
20°	1015.6	1021.5	1043.6	1064.1	1073.0
22.5°	989.2	996.5	1021.5	1043.6	1052.4
25°	959.8	968.6	993.6	1018.6	1030.3
27.5°	927.4	937.7	965.7	992.1	1002.4
30°	893.6	905.4	933.3	961.3	971.5
32.5°	856.9	867.2	901.0	927.4	937.7
35°	820.2	830.4	862.8	892.2	902.5
37.5°	780.5	793.7	826.0	852.5	862.8
40°	739.3	752.5	783.4	814.3	823.1
42.5°	699.6	711.4	740.8	768.7	777.5
45°	658.5	668.8	698.2	723.1	736.4
47.5°	615.8	626.1	655.5	679.1	686.4
50°	573.2	583.5	608.5	629.1	637.9
52.5°	530.6	540.9	564.4	583.5	592.3
55°	488.0	495.3	517.4	535.0	542.4
57.5°	445.4	451.2	468.9	488.0	492.4
60°	401.3	408.6	424.8	438.0	443.9
62.5°	361.6	364.5	379.2	391.0	398.3
65°	320.4	321.9	332.2	345.4	348.3
67.5°	277.8	279.3	289.6	296.9	299.8
70°	238.1	238.1	245.5	251.3	254.3
72.5°	199.9	198.4	202.8	208.7	211.7
75°	160.2	160.2	164.6	167.6	169.0
77.5°	126.4	123.5	126.4	129.3	129.3
80°	92.6	91.1	91.1	92.6	91.1
82.5°	63.2	61.7	63.2	60.3	58.8
85°	35.3	33.8	32.3	29.4	29.4
87.5°	11.8	10.3	10.3	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)