

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: P298354

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298354
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-31L82765-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: 2969.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

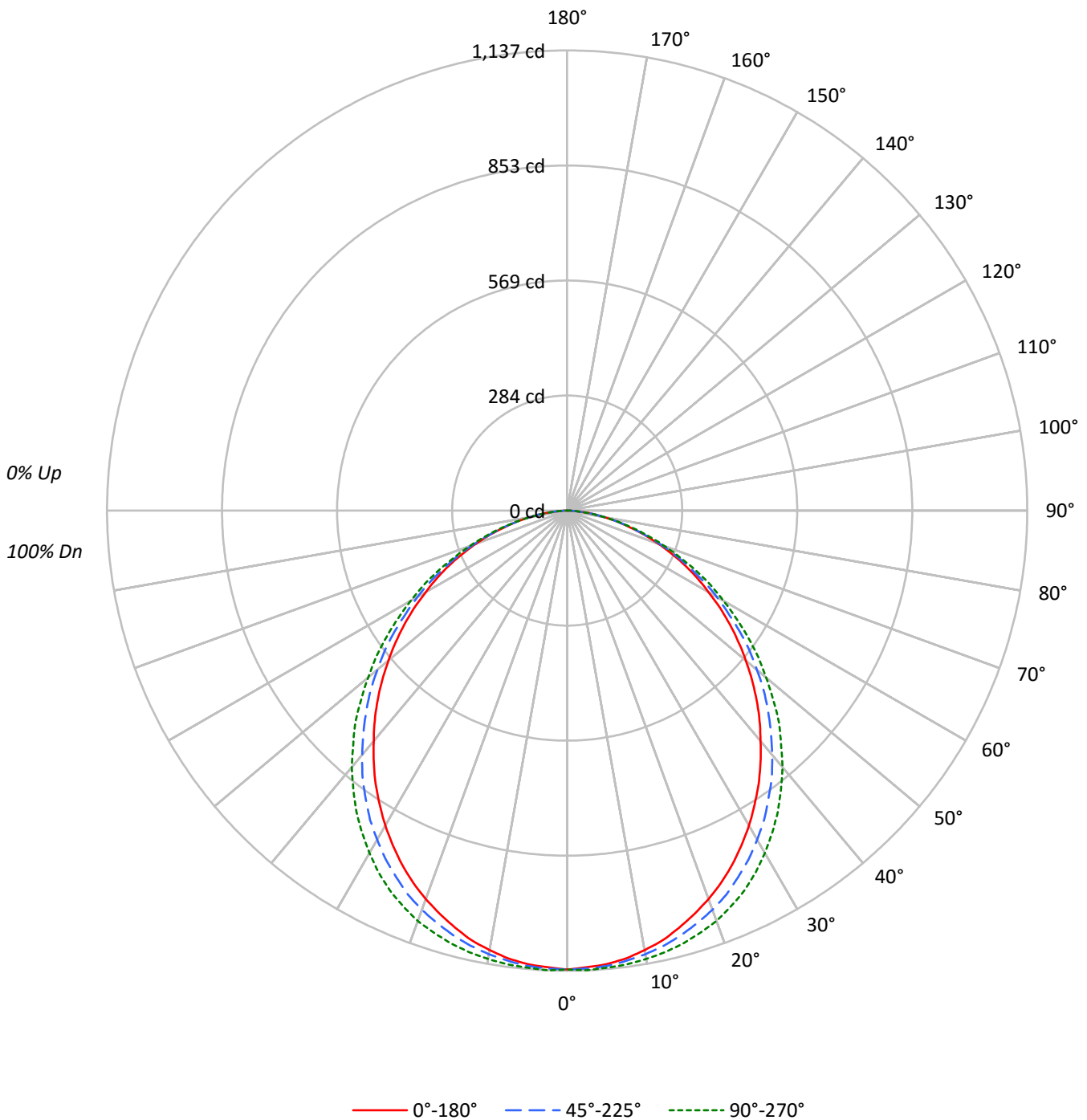
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3051	3051	3051
5°	3039	3051	3063
10°	3013	3042	3074
15°	2973	3027	3085
20°	2925	3006	3090
25°	2866	2967	3077
30°	2793	2917	3036
35°	2710	2850	2982
40°	2612	2768	2908
45°	2520	2672	2818
50°	2413	2562	2686
55°	2303	2441	2559
60°	2172	2299	2403
65°	2052	2127	2231
70°	1884	1943	2012
75°	1675	1722	1768
80°	1443	1421	1421
85°	1096	1003	914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.6
10°-20°	306.6	10.3
20°-30°	460.3	15.5
30°-40°	541.7	18.2
40°-50°	540.3	18.2
50°-60°	463.7	15.6
60°-70°	332.1	11.2
70°-80°	175.9	5.9
80°-90°	41.1	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°	874.1	29.4
0°-40°	1415.9	47.7
0°-60°	2419.9	81.5
0°-90°	2969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2969.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1125	1125	1129	1132	1134	107
15°	1067	1072	1086	1101	1107	301
25°	965	974	999	1024	1036	444
35°	825	835	868	897	908	515
45°	662	673	702	727	741	510
55°	491	498	520	538	546	439
65°	322	324	334	347	350	318
75°	161	161	166	168	170	173
85°	36	34	32	30	30	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1129.4	1129.4	1132.4	1135.3	1136.8
5°	1125.0	1125.0	1129.4	1132.4	1133.8
7.5°	1116.1	1116.1	1122.0	1127.9	1130.9
10°	1102.8	1105.7	1113.1	1122.0	1125.0
12.5°	1088.0	1091.0	1101.3	1113.1	1117.6
15°	1067.3	1071.7	1086.5	1101.3	1107.2
17.5°	1045.1	1051.1	1068.8	1086.5	1093.9
20°	1021.5	1027.4	1049.6	1070.3	1079.1
22.5°	994.9	1002.3	1027.4	1049.6	1058.4
25°	965.3	974.2	999.3	1024.4	1036.3
27.5°	932.8	943.1	971.2	997.8	1008.2
30°	898.8	910.6	938.7	966.8	977.1
32.5°	861.8	872.2	906.2	932.8	943.1
35°	824.9	835.2	867.7	897.3	907.7
37.5°	785.0	798.3	830.8	857.4	867.7
40°	743.6	756.9	787.9	819.0	827.8
42.5°	703.7	715.5	745.0	773.1	782.0
45°	662.3	672.6	702.2	727.3	740.6
47.5°	619.4	629.7	659.3	683.0	690.4
50°	576.5	586.9	612.0	632.7	641.6
52.5°	533.7	544.0	567.7	586.9	595.7
55°	490.8	498.2	520.4	538.1	545.5
57.5°	447.9	453.8	471.6	490.8	495.2
60°	403.6	411.0	427.2	440.5	446.4
62.5°	363.7	366.6	381.4	393.2	400.6
65°	322.3	323.7	334.1	347.4	350.4
67.5°	279.4	280.9	291.2	298.6	301.6
70°	239.5	239.5	246.9	252.8	255.7
72.5°	201.0	199.6	204.0	209.9	212.9
75°	161.1	161.1	165.6	168.5	170.0
77.5°	127.1	124.2	127.1	130.1	130.1
80°	93.1	91.7	91.7	93.1	91.7
82.5°	63.6	62.1	63.6	60.6	59.1
85°	35.5	34.0	32.5	29.6	29.6
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)