

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: P298356

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298356
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

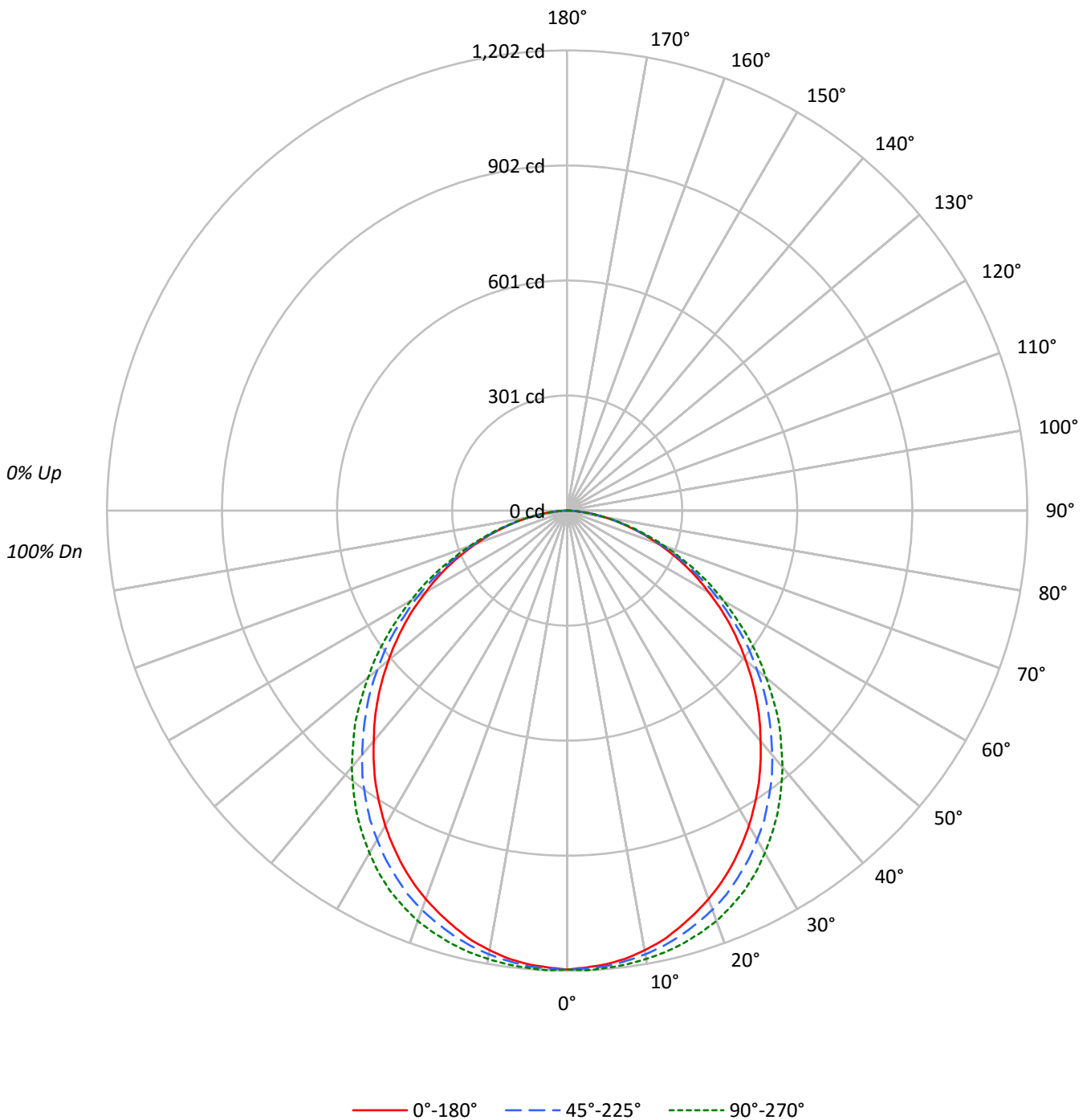
Input Watts (W): 24.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3226	3226	3226
5°	3213	3226	3238
10°	3186	3216	3250
15°	3144	3200	3261
20°	3093	3178	3267
25°	3030	3137	3253
30°	2953	3084	3210
35°	2865	3014	3152
40°	2761	2926	3074
45°	2665	2825	2980
50°	2552	2709	2840
55°	2434	2581	2706
60°	2296	2431	2540
65°	2169	2249	2358
70°	1992	2054	2127
75°	1772	1820	1868
80°	1526	1502	1502
85°	1158	1062	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.6
10°-20°	324.1	10.3
20°-30°	486.6	15.5
30°-40°	572.8	18.2
40°-50°	571.3	18.2
50°-60°	490.2	15.6
60°-70°	351.1	11.2
70°-80°	185.9	5.9
80°-90°	43.5	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°	924.2	29.4
0°-40°	1496.9	47.7
0°-60°	2558.5	81.5
0°-90°	3139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1189	1189	1194	1197	1199	113
15°	1128	1133	1149	1164	1171	318
25°	1021	1030	1056	1083	1096	470
35°	872	883	917	949	960	545
45°	700	711	742	769	783	540
55°	519	527	550	569	577	464
65°	341	342	353	367	370	337
75°	170	170	175	178	180	183
85°	38	36	34	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.8	1198.8	1198.8	1198.8	1198.8
2.5°	1194.1	1194.1	1197.2	1200.3	1201.9
5°	1189.4	1189.4	1194.1	1197.2	1198.8
7.5°	1180.0	1180.0	1186.3	1192.5	1195.6
10°	1165.9	1169.1	1176.9	1186.3	1189.4
12.5°	1150.3	1153.4	1164.4	1176.9	1181.6
15°	1128.4	1133.1	1148.7	1164.4	1170.6
17.5°	1105.0	1111.2	1130.0	1148.7	1156.6
20°	1080.0	1086.2	1109.7	1131.6	1140.9
22.5°	1051.8	1059.7	1086.2	1109.7	1119.0
25°	1020.6	1030.0	1056.5	1083.1	1095.6
27.5°	986.2	997.1	1026.8	1055.0	1065.9
30°	950.3	962.8	992.5	1022.1	1033.1
32.5°	911.2	922.1	958.1	986.2	997.1
35°	872.1	883.0	917.4	948.7	959.6
37.5°	829.9	844.0	878.4	906.5	917.4
40°	786.1	800.2	833.0	865.9	875.2
42.5°	743.9	756.5	787.7	817.4	826.8
45°	700.2	711.1	742.4	769.0	783.0
47.5°	654.9	665.8	697.1	722.1	729.9
50°	609.5	620.5	647.0	668.9	678.3
52.5°	564.2	575.2	600.2	620.5	629.9
55°	518.9	526.7	550.1	568.9	576.7
57.5°	473.6	479.8	498.6	518.9	523.6
60°	426.7	434.5	451.7	465.7	472.0
62.5°	384.5	387.6	403.2	415.7	423.5
65°	340.7	342.3	353.2	367.3	370.4
67.5°	295.4	297.0	307.9	315.7	318.8
70°	253.2	253.2	261.0	267.3	270.4
72.5°	212.6	211.0	215.7	221.9	225.1
75°	170.4	170.4	175.0	178.2	179.7
77.5°	134.4	131.3	134.4	137.5	137.5
80°	98.5	96.9	96.9	98.5	96.9
82.5°	67.2	65.6	67.2	64.1	62.5
85°	37.5	35.9	34.4	31.3	31.3
87.5°	12.5	10.9	10.9	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)