

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: P297874

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
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-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3047.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

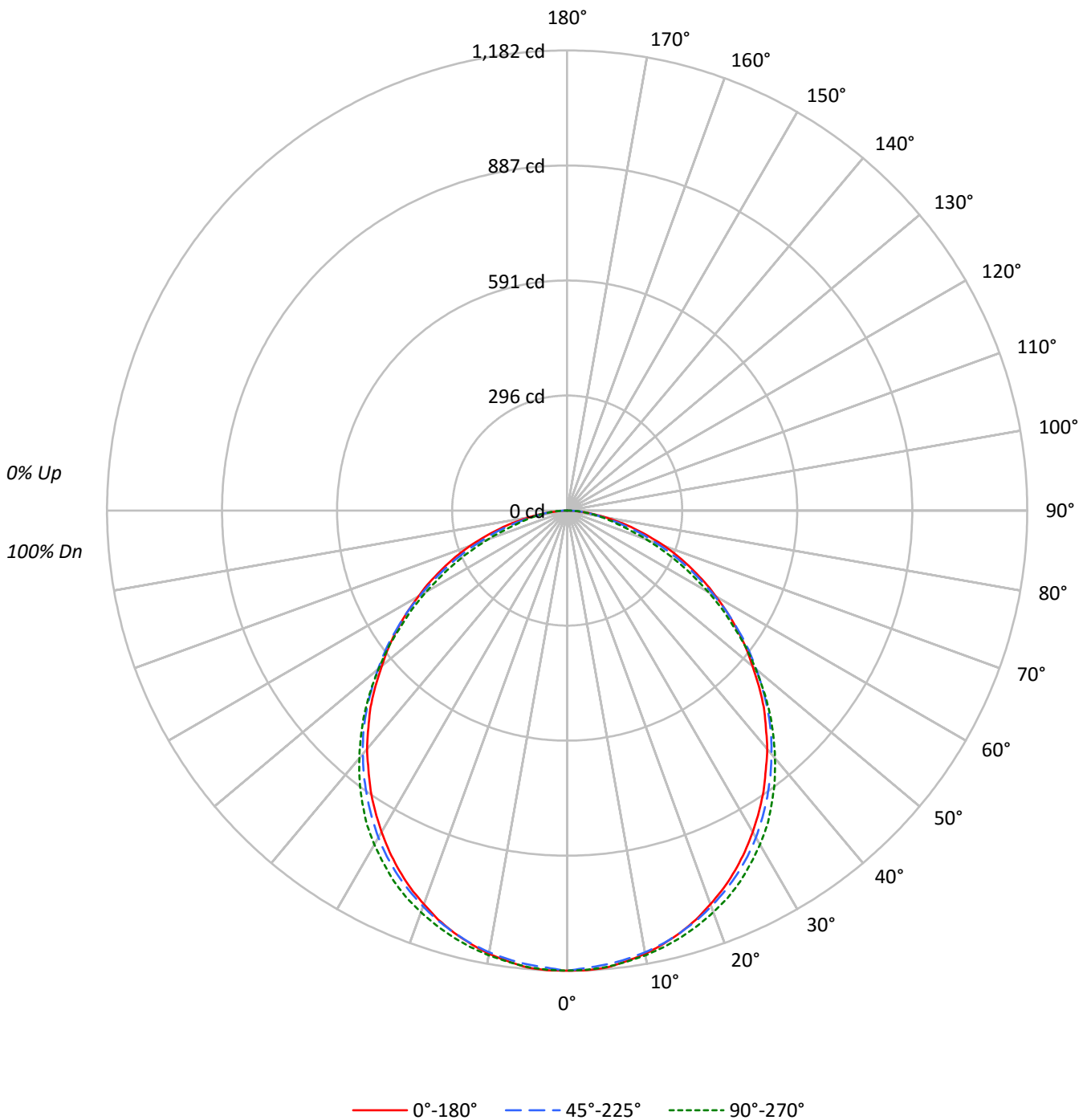
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	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	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3180	3180	3180
5°	3182	3161	3179
10°	3159	3148	3169
15°	3127	3127	3159
20°	3081	3100	3144
25°	3030	3064	3122
30°	2962	3014	3078
35°	2890	2945	3012
40°	2809	2868	2917
45°	2718	2777	2802
50°	2601	2655	2644
55°	2502	2521	2454
60°	2377	2343	2252
65°	2245	2155	2007
70°	2083	1910	1697
75°	1853	1639	1396
80°	1542	1340	1302
85°	1118	1195	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.7
10°-20°	317.7	10.4
20°-30°	476.2	15.6
30°-40°	561.0	18.4
40°-50°	559.5	18.4
50°-60°	475.9	15.6
60°-70°	332.2	10.9
70°-80°	168.8	5.5
80°-90°	44.1	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°	905.4	29.7
0°-40°	1466.4	48.1
0°-60°	2501.9	82.1
0°-90°	3047.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1178	1175	1170	1177	1177	112
15°	1122	1122	1122	1133	1134	316
25°	1020	1022	1032	1048	1051	470
35°	880	881	896	914	917	550
45°	714	717	730	735	736	550
55°	533	533	537	530	523	477
65°	353	347	338	320	315	350
75°	178	172	158	138	134	189
85°	36	38	39	39	39	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>1181.8</i>	<i>1181.8</i>	<i>1181.8</i>	<i>1181.8</i>	<i>1181.8</i>
2.5°	<i>1181.8</i>	1180.5	1175.4	1180.5	1180.5
5°	<i>1178.0</i>	1175.4	1170.2	1176.7	1176.7
7.5°	<i>1167.6</i>	1166.3	1162.5	1168.9	1168.9
10°	<i>1156.0</i>	1154.7	1152.1	1159.9	1159.9
12.5°	<i>1140.5</i>	1140.5	1139.2	1147.0	1148.2
15°	<i>1122.4</i>	1122.4	1122.4	1132.7	1134.0
17.5°	<i>1101.7</i>	1100.5	1104.3	1116.0	1117.2
20°	<i>1075.9</i>	1077.2	1082.4	1095.3	1097.9
22.5°	<i>1050.1</i>	1051.4	1057.8	1073.3	1077.2
25°	<i>1020.4</i>	1021.7	1032.0	1047.5	1051.4
27.5°	<i>988.1</i>	990.7	1002.3	1019.1	1021.7
30°	<i>953.2</i>	955.8	970.0	986.8	990.7
32.5°	<i>917.0</i>	920.9	933.8	951.9	957.1
35°	<i>879.6</i>	880.9	896.4	914.5	917.0
37.5°	<i>838.3</i>	842.1	857.6	873.1	875.7
40°	<i>799.5</i>	802.1	816.3	829.2	830.5
42.5°	<i>755.6</i>	759.5	775.0	784.0	784.0
45°	<i>714.3</i>	716.8	729.8	734.9	736.2
47.5°	<i>667.8</i>	670.3	682.0	684.6	684.6
50°	<i>621.3</i>	627.7	634.2	634.2	631.6
52.5°	<i>578.6</i>	579.9	587.7	582.5	579.9
55°	<i>533.4</i>	533.4	537.3	529.6	523.1
57.5°	<i>488.2</i>	488.2	488.2	477.9	472.7
60°	<i>441.7</i>	440.4	435.3	422.4	418.5
62.5°	<i>397.8</i>	393.9	386.2	373.3	365.5
65°	<i>352.6</i>	347.4	338.4	320.3	315.2
67.5°	<i>310.0</i>	300.9	290.6	273.8	264.8
70°	<i>264.8</i>	257.0	242.8	223.4	215.7
72.5°	<i>220.9</i>	213.1	201.5	182.1	170.5
75°	<i>178.2</i>	171.8	157.6	138.2	134.3
77.5°	<i>136.9</i>	133.0	118.8	109.8	108.5
80°	<i>99.5</i>	98.2	86.5	84.0	84.0
82.5°	<i>65.9</i>	64.6	60.7	60.7	59.4
85°	<i>36.2</i>	37.5	38.7	38.7	38.7
87.5°	<i>12.9</i>	15.5	18.1	18.1	18.1
90°	<i>0.0</i>	0.0	0.0	0.0	0.0

(END OF REPORT)