

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: P297597

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3050.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

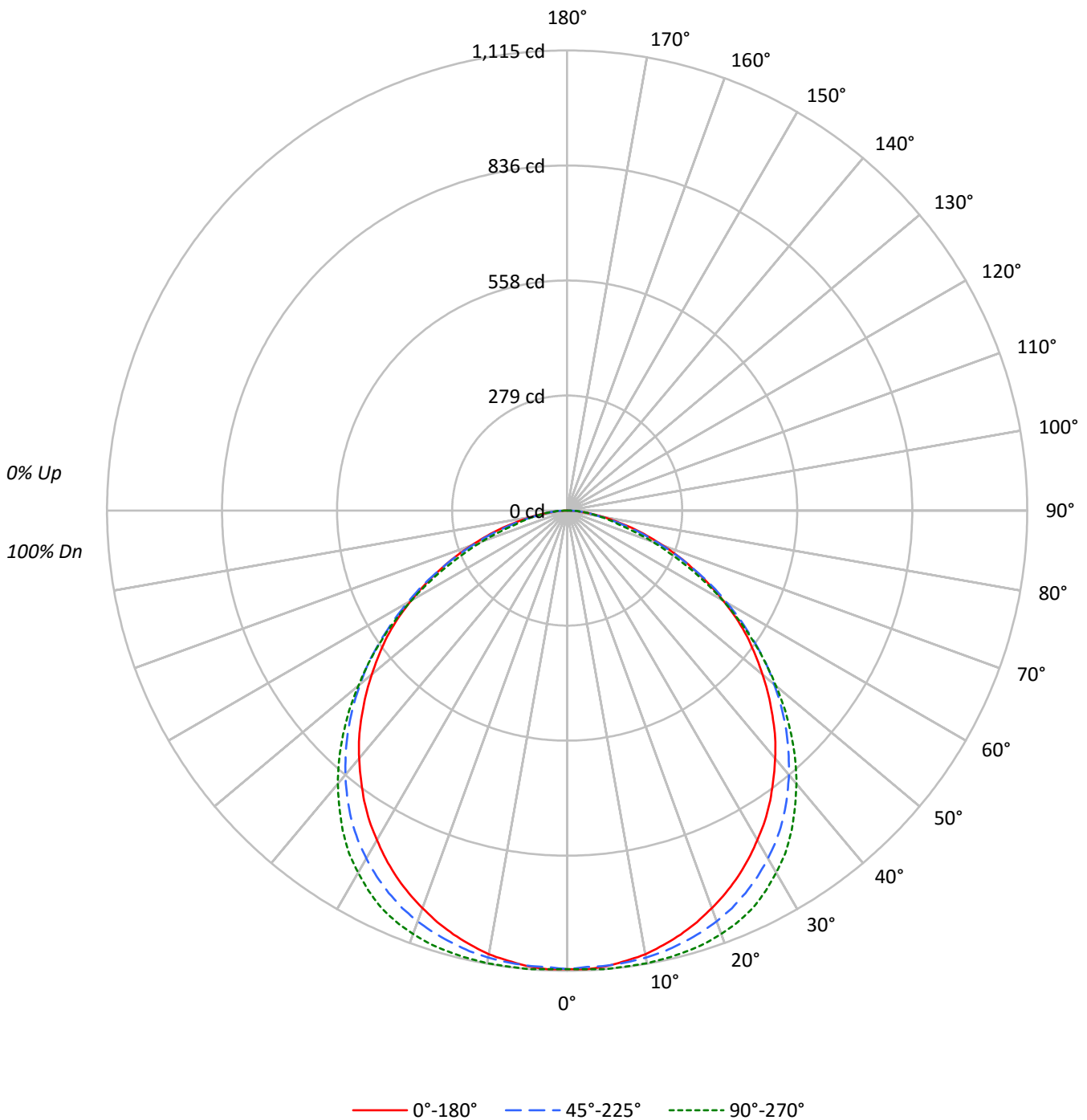
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2990	2990	2990
5°	2994	2990	3012
10°	2984	3006	3043
15°	2962	3019	3084
20°	2936	3033	3127
25°	2907	3036	3157
30°	2864	3025	3147
35°	2818	2997	3113
40°	2755	2936	3037
45°	2679	2855	2922
50°	2588	2742	2764
55°	2497	2594	2580
60°	2352	2404	2345
65°	2167	2176	2055
70°	1939	1896	1725
75°	1684	1571	1331
80°	1350	1224	1224
85°	966	1136	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	3.5
10°-20°	306.7	10.1
20°-30°	470.9	15.4
30°-40°	567.1	18.6
40°-50°	573.1	18.8
50°-60°	488.8	16.0
60°-70°	334.6	11.0
70°-80°	161.5	5.3
80°-90°	41.6	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°	883.2	29.0
0°-40°	1450.3	47.6
0°-60°	2512.3	82.4
0°-90°	3050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1108	1108	1107	1114	1115	105
15°	1063	1072	1084	1103	1107	300
25°	979	994	1022	1052	1063	451
35°	858	877	912	941	948	536
45°	704	723	750	768	768	543
55°	532	542	553	556	550	474
65°	340	344	342	330	323	338
75°	162	162	151	133	128	172
85°	31	34	37	38	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.0	1111.0	1111.0	1111.0	1111.0
2.5°	1112.3	1111.0	1106.9	1112.3	1112.3
5°	1108.2	1108.2	1106.9	1113.7	1115.0
7.5°	1100.1	1102.8	1104.1	1112.3	1113.7
10°	1091.9	1094.6	1100.1	1111.0	1113.7
12.5°	1078.3	1083.7	1093.3	1108.2	1111.0
15°	1063.3	1071.5	1083.7	1102.8	1106.9
17.5°	1045.6	1056.5	1072.8	1094.6	1101.4
20°	1025.2	1037.4	1059.2	1083.7	1091.9
22.5°	1003.4	1017.0	1042.9	1071.5	1079.6
25°	978.9	993.9	1022.5	1052.4	1063.3
27.5°	951.7	968.0	999.3	1030.6	1040.2
30°	921.7	939.4	973.4	1004.8	1012.9
32.5°	891.8	909.5	944.9	974.8	984.3
35°	857.7	876.8	912.2	940.8	947.6
37.5°	821.0	840.0	875.4	904.0	906.7
40°	784.2	803.3	835.9	861.8	864.5
42.5°	746.1	763.8	793.7	815.5	818.2
45°	703.9	722.9	750.2	767.9	767.9
47.5°	661.7	680.7	703.9	716.1	716.1
50°	618.1	635.8	654.9	661.7	660.3
52.5°	574.5	590.9	607.2	608.6	605.8
55°	532.3	541.9	552.8	555.5	550.0
57.5°	486.0	494.2	501.0	496.9	492.8
60°	437.0	445.2	446.6	439.8	435.7
62.5°	389.4	396.2	396.2	385.3	378.5
65°	340.4	344.4	341.7	329.5	322.7
67.5°	294.1	296.8	291.4	279.1	268.2
70°	246.4	247.8	241.0	226.0	219.2
72.5°	202.9	204.2	196.1	178.4	170.2
75°	162.0	162.0	151.1	133.4	128.0
77.5°	121.2	125.3	113.0	103.5	103.5
80°	87.1	91.2	79.0	80.3	79.0
82.5°	57.2	61.3	57.2	57.2	57.2
85°	31.3	34.0	36.8	38.1	38.1
87.5°	9.5	16.3	17.7	19.1	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)