

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: P297601

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297601
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-35L82765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3106.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

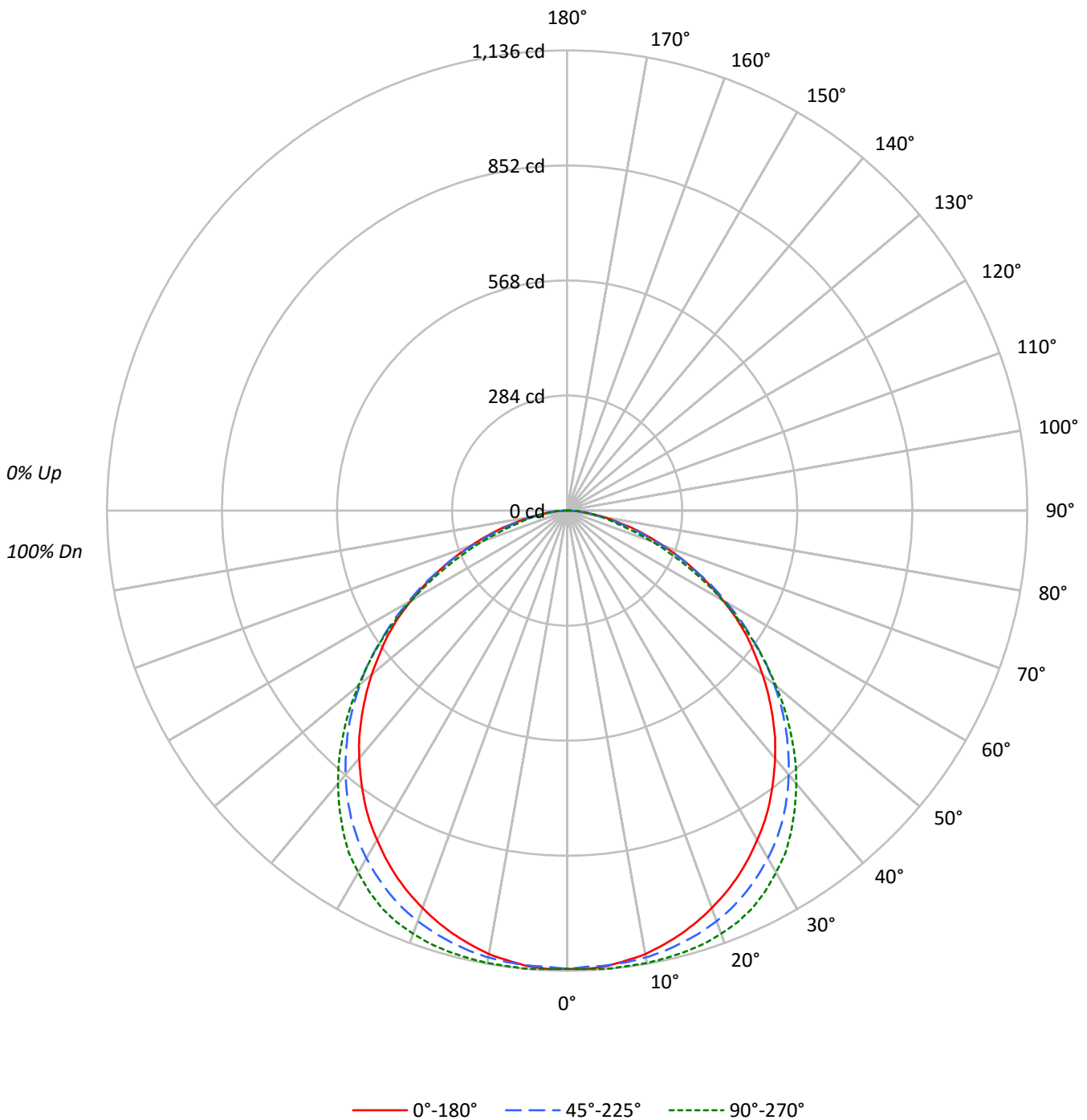
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3044	3044	3044
5°	3049	3045	3067
10°	3038	3061	3099
15°	3017	3075	3140
20°	2990	3089	3184
25°	2960	3091	3215
30°	2916	3080	3205
35°	2870	3052	3170
40°	2805	2990	3093
45°	2728	2907	2976
50°	2635	2792	2815
55°	2543	2641	2628
60°	2396	2448	2388
65°	2207	2216	2092
70°	1974	1931	1756
75°	1716	1600	1355
80°	1375	1246	1246
85°	985	1155	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.5
10°-20°	312.3	10.1
20°-30°	479.5	15.4
30°-40°	577.5	18.6
40°-50°	583.6	18.8
50°-60°	497.8	16.0
60°-70°	340.8	11.0
70°-80°	164.4	5.3
80°-90°	42.4	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°	899.4	29.0
0°-40°	1477.0	47.6
0°-60°	2558.4	82.4
0°-90°	3106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1129	1129	1127	1134	1136	107
15°	1083	1091	1104	1123	1127	305
25°	997	1012	1041	1072	1083	459
35°	874	893	929	958	965	546
45°	717	736	764	782	782	553
55°	542	552	563	566	560	483
65°	347	351	348	336	329	344
75°	165	165	154	136	130	175
85°	32	35	37	39	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.3	1131.3	1131.3	1131.3	1131.3
2.5°	1132.7	1131.3	1127.2	1132.7	1132.7
5°	1128.6	1128.6	1127.2	1134.1	1135.5
7.5°	1120.3	1123.0	1124.4	1132.7	1134.1
10°	1111.9	1114.7	1120.3	1131.3	1134.1
12.5°	1098.1	1103.6	1113.3	1128.6	1131.3
15°	1082.8	1091.1	1103.6	1123.0	1127.2
17.5°	1064.8	1075.9	1092.5	1114.7	1121.6
20°	1044.0	1056.5	1078.7	1103.6	1111.9
22.5°	1021.8	1035.7	1062.0	1091.1	1099.5
25°	996.9	1012.1	1041.2	1071.7	1082.8
27.5°	969.1	985.8	1017.7	1049.5	1059.3
30°	938.6	956.7	991.3	1023.2	1031.5
32.5°	908.1	926.2	962.2	992.7	1002.4
35°	873.5	892.9	928.9	958.0	965.0
37.5°	836.0	855.4	891.5	920.6	923.4
40°	798.6	818.0	851.3	877.6	880.4
42.5°	759.8	777.8	808.3	830.5	833.3
45°	716.8	736.2	763.9	782.0	782.0
47.5°	673.8	693.2	716.8	729.3	729.3
50°	629.5	647.5	666.9	673.8	672.4
52.5°	585.1	601.7	618.4	619.7	617.0
55°	542.1	551.8	562.9	565.7	560.1
57.5°	495.0	503.3	510.2	506.1	501.9
60°	445.1	453.4	454.8	447.8	443.7
62.5°	396.5	403.5	403.5	392.4	385.4
65°	346.6	350.8	348.0	335.5	328.6
67.5°	299.5	302.2	296.7	284.2	273.1
70°	250.9	252.3	245.4	230.2	223.2
72.5°	206.6	208.0	199.6	181.6	173.3
75°	165.0	165.0	153.9	135.9	130.3
77.5°	123.4	127.6	115.1	105.4	105.4
80°	88.7	92.9	80.4	81.8	80.4
82.5°	58.2	62.4	58.2	58.2	58.2
85°	31.9	34.7	37.4	38.8	38.8
87.5°	9.7	16.6	18.0	19.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)