

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: P297741

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-35L82765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3101.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

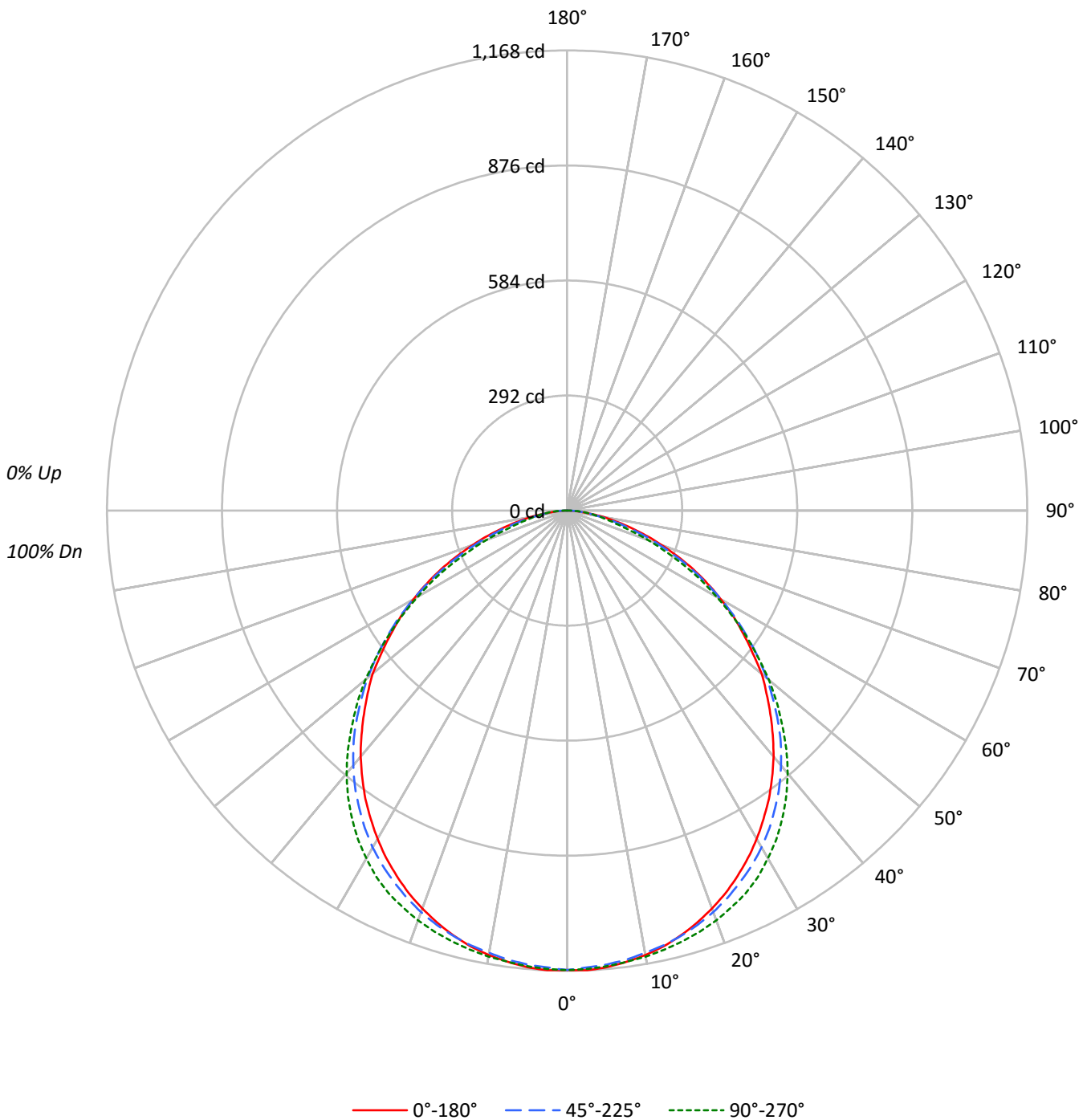
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	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	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	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°	3138	3138	3138
5°	3143	3124	3135
10°	3130	3115	3141
15°	3110	3114	3153
20°	3078	3105	3169
25°	3039	3088	3183
30°	2990	3068	3167
35°	2934	3025	3130
40°	2864	2967	3059
45°	2776	2881	2939
50°	2699	2769	2798
55°	2563	2616	2602
60°	2426	2426	2358
65°	2252	2199	2075
70°	1997	1910	1724
75°	1730	1572	1327
80°	1418	1224	1204
85°	942	1115	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.6
10°-20°	316.5	10.2
20°-30°	481.0	15.5
30°-40°	575.9	18.6
40°-50°	581.0	18.7
50°-60°	494.8	16.0
60°-70°	338.4	10.9
70°-80°	162.0	5.2
80°-90°	41.0	1.3
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°	907.8	29.3
0°-40°	1483.8	47.8
0°-60°	2559.6	82.5
0°-90°	3101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1164	1162	1156	1162	1161	110
15°	1116	1114	1118	1130	1132	315
25°	1023	1025	1040	1064	1072	471
35°	893	896	921	947	953	558
45°	729	735	757	772	772	563
55°	546	549	558	559	555	489
65°	354	347	345	333	326	349
75°	166	164	151	132	128	178
85°	30	33	36	37	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.2	1166.2	1166.2	1166.2	1166.2
2.5°	1167.6	1166.2	1160.7	1166.2	1164.8
5°	1163.5	1162.1	1156.5	1162.1	1160.7
7.5°	1155.1	1153.7	1149.6	1155.1	1155.1
10°	1145.4	1142.7	1139.9	1148.2	1149.6
12.5°	1132.9	1130.2	1130.2	1139.9	1141.3
15°	1116.3	1113.5	1117.7	1130.2	1131.6
17.5°	1096.9	1095.5	1102.4	1117.7	1120.5
20°	1074.7	1073.3	1084.4	1102.4	1106.6
22.5°	1051.1	1051.1	1063.6	1084.4	1090.0
25°	1023.4	1024.8	1040.0	1063.6	1071.9
27.5°	994.3	997.0	1015.1	1041.4	1048.4
30°	962.4	966.5	987.3	1012.3	1019.2
32.5°	927.7	931.9	955.4	981.8	988.7
35°	893.0	895.8	920.8	947.1	952.7
37.5°	854.2	858.4	884.7	908.3	913.8
40°	815.4	819.5	844.5	866.7	870.9
42.5°	772.4	777.9	802.9	820.9	823.7
45°	729.4	735.0	757.1	772.4	772.4
47.5°	686.4	689.2	708.6	723.9	722.5
50°	644.8	643.4	661.5	668.4	668.4
52.5°	593.5	597.7	610.2	614.3	610.2
55°	546.4	549.1	557.5	558.8	554.7
57.5°	500.6	499.2	506.2	502.0	496.4
60°	450.7	450.7	450.7	446.5	438.2
62.5°	402.1	399.4	398.0	388.3	384.1
65°	353.6	346.7	345.3	332.8	325.9
67.5°	302.3	299.5	292.6	280.1	267.6
70°	253.8	251.0	242.7	227.4	219.1
72.5°	209.4	206.6	195.5	177.5	166.4
75°	166.4	163.6	151.2	131.7	127.6
77.5°	126.2	124.8	112.3	102.6	101.2
80°	91.5	90.1	79.0	79.0	77.7
82.5°	58.2	58.2	55.5	56.9	58.2
85°	30.5	33.3	36.1	37.4	38.8
87.5°	9.7	15.3	18.0	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)