

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: P297813

Luminaire Tested: **D3X-WG-35L92765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297813
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-35L92765-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891.0 lumens
Efficiency: N/A
Efficacy: 85.8 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

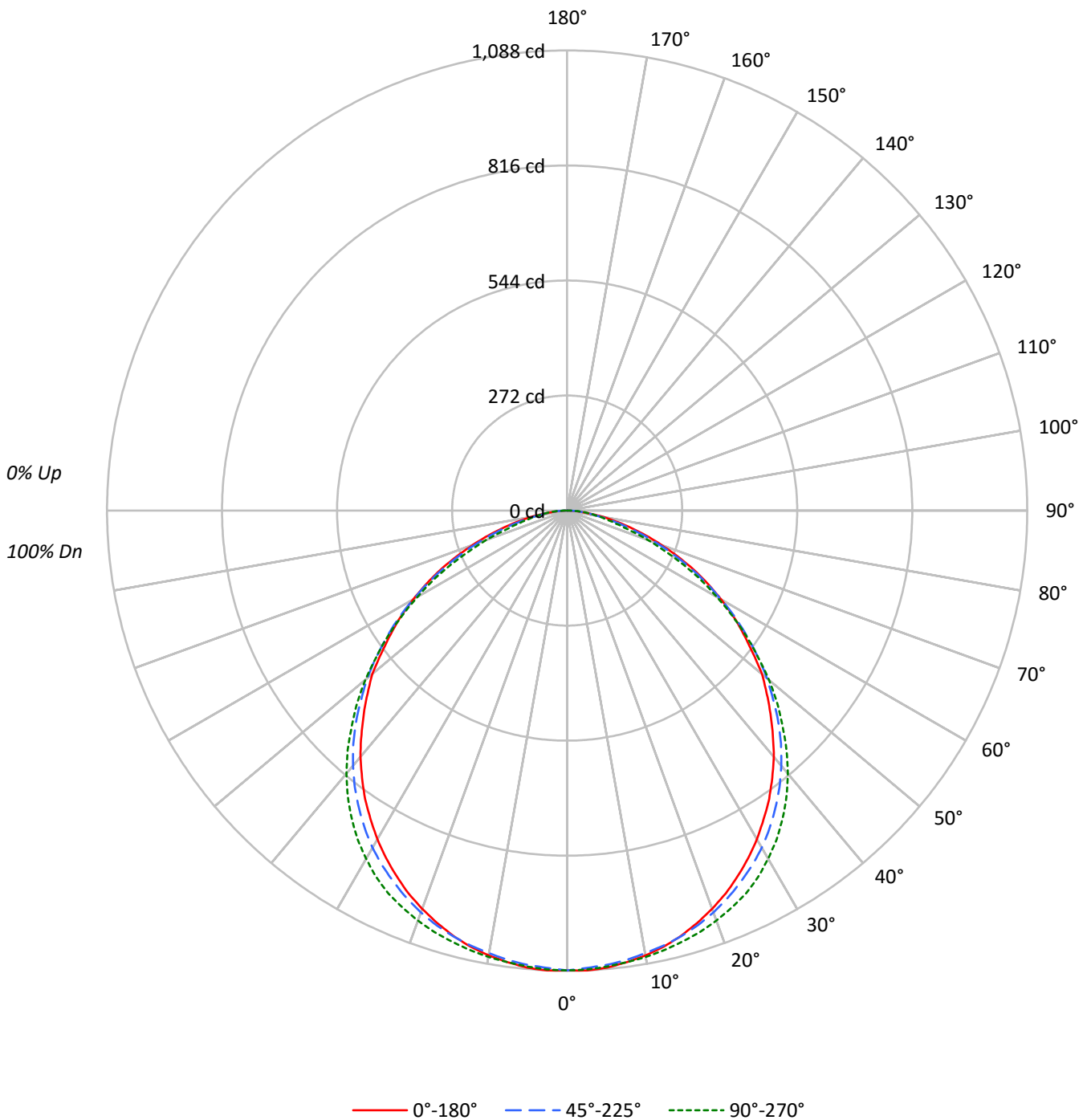
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2926	2926	2926
5°	2930	2912	2923
10°	2918	2904	2928
15°	2899	2903	2939
20°	2869	2895	2954
25°	2833	2879	2967
30°	2788	2860	2953
35°	2735	2820	2918
40°	2670	2766	2852
45°	2588	2686	2740
50°	2517	2582	2609
55°	2390	2438	2426
60°	2261	2261	2199
65°	2099	2050	1934
70°	1862	1780	1607
75°	1613	1465	1236
80°	1322	1142	1122
85°	877	1037	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.8	3.6
10°-20°	295.1	10.2
20°-30°	448.5	15.5
30°-40°	537.0	18.6
40°-50°	541.6	18.7
50°-60°	461.3	16.0
60°-70°	315.4	10.9
70°-80°	151.1	5.2
80°-90°	38.2	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°	846.3	29.3
0°-40°	1383.3	47.8
0°-60°	2386.2	82.5
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1085	1083	1078	1083	1082	103
15°	1041	1038	1042	1054	1055	293
25°	954	955	970	992	999	440
35°	833	835	858	883	888	520
45°	680	685	706	720	720	525
55°	509	512	520	521	517	456
65°	330	323	322	310	304	325
75°	155	153	141	123	119	166
85°	28	31	34	35	36	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1088.5	1087.3	1082.1	1087.3	1086.0
5°	1084.7	1083.4	1078.2	1083.4	1082.1
7.5°	1076.9	1075.6	1071.7	1076.9	1076.9
10°	1067.9	1065.3	1062.7	1070.4	1071.7
12.5°	1056.2	1053.6	1053.6	1062.7	1064.0
15°	1040.7	1038.1	1042.0	1053.6	1054.9
17.5°	1022.6	1021.3	1027.8	1042.0	1044.6
20°	1001.9	1000.6	1011.0	1027.8	1031.7
22.5°	979.9	979.9	991.6	1011.0	1016.1
25°	954.1	955.4	969.6	991.6	999.3
27.5°	926.9	929.5	946.3	970.9	977.4
30°	897.2	901.1	920.5	943.7	950.2
32.5°	864.9	868.8	890.7	915.3	921.8
35°	832.6	835.2	858.4	883.0	888.2
37.5°	796.4	800.2	824.8	846.8	852.0
40°	760.2	764.0	787.3	808.0	811.9
42.5°	720.1	725.3	748.5	765.3	767.9
45°	680.0	685.2	705.9	720.1	720.1
47.5°	639.9	642.5	660.6	674.8	673.6
50°	601.2	599.9	616.7	623.1	623.1
52.5°	553.3	557.2	568.8	572.7	568.8
55°	509.4	512.0	519.7	521.0	517.1
57.5°	466.7	465.4	471.9	468.0	462.8
60°	420.2	420.2	420.2	416.3	408.5
62.5°	374.9	372.3	371.0	362.0	358.1
65°	329.7	323.2	321.9	310.3	303.8
67.5°	281.8	279.2	272.8	261.1	249.5
70°	236.6	234.0	226.2	212.0	204.3
72.5°	195.2	192.6	182.3	165.5	155.1
75°	155.1	152.6	140.9	122.8	118.9
77.5°	117.6	116.4	104.7	95.7	94.4
80°	85.3	84.0	73.7	73.7	72.4
82.5°	54.3	54.3	51.7	53.0	54.3
85°	28.4	31.0	33.6	34.9	36.2
87.5°	9.0	14.2	16.8	18.1	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)