

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: P297637

Luminaire Tested: **D3X-WD-35L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297637
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-35L93050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3162.0 lumens
Efficiency: N/A
Efficacy: 90.3 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

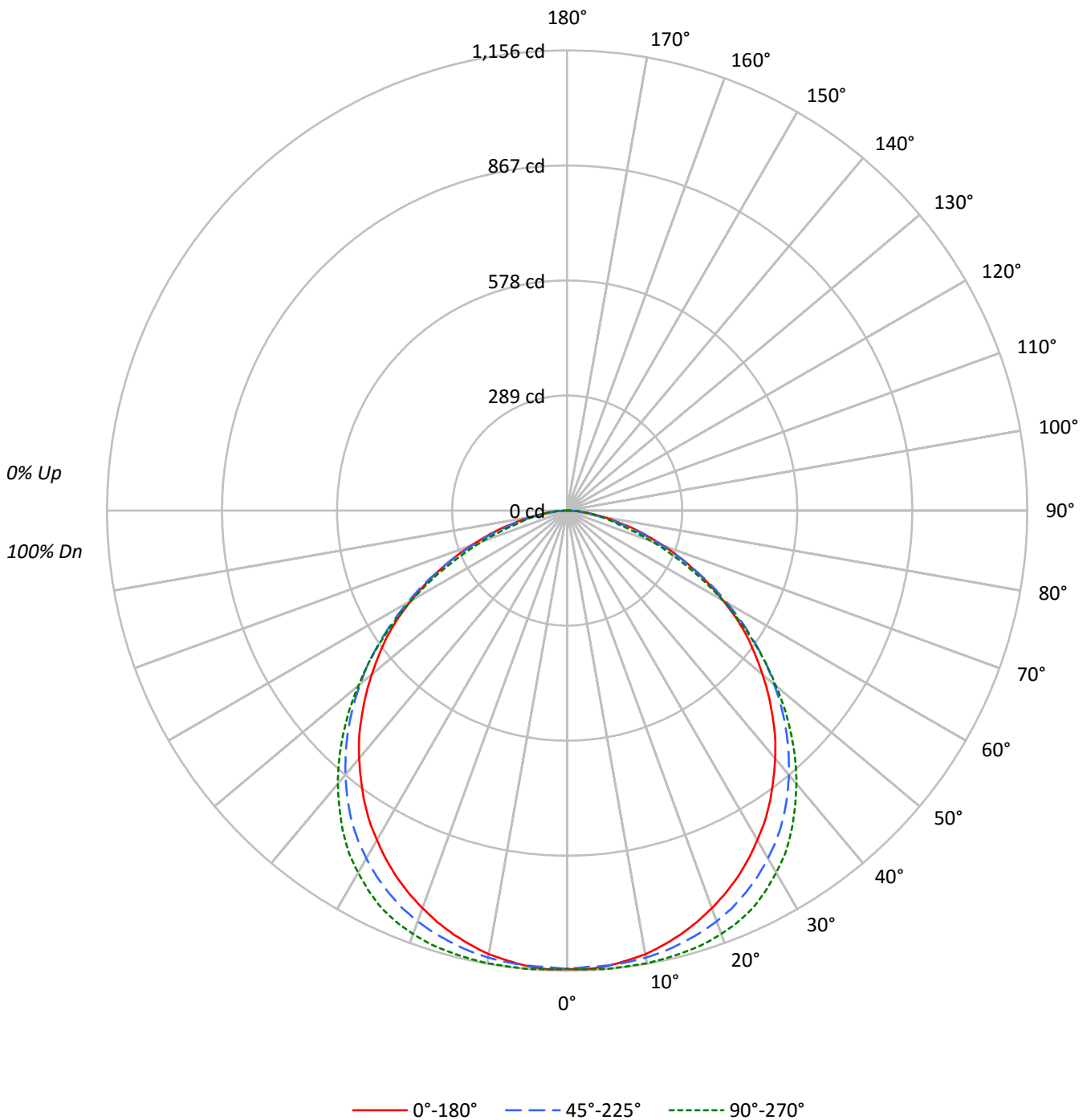
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3099	3099	3099
5°	3103	3100	3123
10°	3093	3116	3155
15°	3071	3130	3197
20°	3044	3145	3242
25°	3013	3147	3273
30°	2969	3136	3263
35°	2921	3107	3227
40°	2856	3044	3149
45°	2777	2960	3030
50°	2683	2842	2866
55°	2589	2689	2675
60°	2439	2492	2431
65°	2247	2256	2130
70°	2010	1965	1788
75°	1747	1629	1380
80°	1399	1269	1269
85°	1003	1176	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.5
10°-20°	317.9	10.1
20°-30°	488.2	15.4
30°-40°	587.9	18.6
40°-50°	594.1	18.8
50°-60°	506.8	16.0
60°-70°	346.9	11.0
70°-80°	167.4	5.3
80°-90°	43.2	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°	915.7	29.0
0°-40°	1503.6	47.6
0°-60°	2604.5	82.4
0°-90°	3162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1149	1149	1148	1155	1156	109
15°	1102	1111	1124	1143	1148	311
25°	1015	1030	1060	1091	1102	467
35°	889	909	946	975	982	556
45°	730	750	778	796	796	563
55°	552	562	573	576	570	491
65°	353	357	354	342	334	350
75°	168	168	157	138	133	178
85°	32	35	38	40	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.7	1151.7	1151.7	1151.7	1151.7
2.5°	1153.2	1151.7	1147.5	1153.2	1153.2
5°	1148.9	1148.9	1147.5	1154.6	1156.0
7.5°	1140.5	1143.3	1144.7	1153.2	1154.6
10°	1132.0	1134.8	1140.5	1151.7	1154.6
12.5°	1117.9	1123.5	1133.4	1148.9	1151.7
15°	1102.3	1110.8	1123.5	1143.3	1147.5
17.5°	1084.0	1095.3	1112.2	1134.8	1141.9
20°	1062.8	1075.5	1098.1	1123.5	1132.0
22.5°	1040.2	1054.4	1081.2	1110.8	1119.3
25°	1014.8	1030.4	1060.0	1091.1	1102.3
27.5°	986.6	1003.5	1036.0	1068.5	1078.4
30°	955.6	973.9	1009.2	1041.7	1050.1
32.5°	924.5	942.9	979.5	1010.6	1020.5
35°	889.2	909.0	945.7	975.3	982.4
37.5°	851.1	870.9	907.6	937.2	940.0
40°	813.0	832.8	866.6	893.5	896.3
42.5°	773.5	791.8	822.9	845.5	848.3
45°	729.7	749.5	777.7	796.1	796.1
47.5°	686.0	705.7	729.7	742.4	742.4
50°	640.8	659.1	678.9	686.0	684.6
52.5°	595.6	612.6	629.5	630.9	628.1
55°	551.9	561.8	573.1	575.9	570.2
57.5°	503.9	512.4	519.4	515.2	510.9
60°	453.1	461.5	463.0	455.9	451.7
62.5°	403.7	410.7	410.7	399.4	392.4
65°	352.9	357.1	354.3	341.6	334.5
67.5°	304.9	307.7	302.1	289.3	278.1
70°	255.5	256.9	249.8	234.3	227.2
72.5°	210.3	211.7	203.2	184.9	176.4
75°	168.0	168.0	156.7	138.3	132.7
77.5°	125.6	129.9	117.2	107.3	107.3
80°	90.3	94.6	81.9	83.3	81.9
82.5°	59.3	63.5	59.3	59.3	59.3
85°	32.5	35.3	38.1	39.5	39.5
87.5°	9.9	16.9	18.3	19.8	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)