

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: P297777

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297777
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-35L93050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3156.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

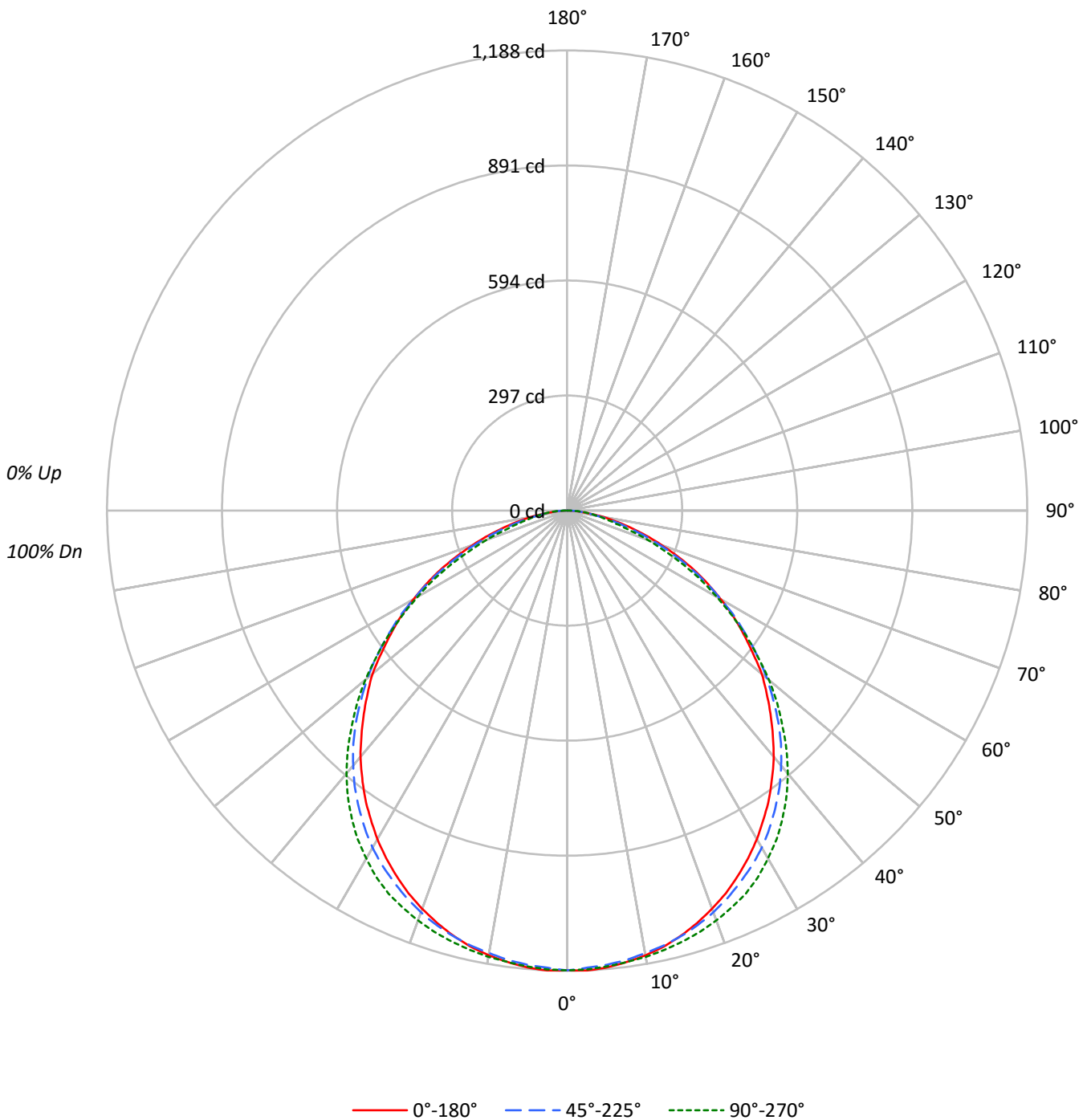
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3194	3194	3194
5°	3199	3179	3191
10°	3185	3170	3197
15°	3165	3169	3208
20°	3132	3160	3225
25°	3092	3143	3239
30°	3044	3123	3223
35°	2986	3078	3185
40°	2915	3019	3113
45°	2825	2933	2992
50°	2748	2818	2848
55°	2609	2662	2648
60°	2469	2469	2400
65°	2292	2238	2112
70°	2032	1943	1755
75°	1761	1599	1350
80°	1443	1246	1224
85°	957	1133	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.6
10°-20°	322.1	10.2
20°-30°	489.6	15.5
30°-40°	586.2	18.6
40°-50°	591.3	18.7
50°-60°	503.6	16.0
60°-70°	344.4	10.9
70°-80°	164.9	5.2
80°-90°	41.8	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
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0°-30°	923.9	29.3
0°-40°	1510.1	47.8
0°-60°	2605.0	82.5
0°-90°	3156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1184	1183	1177	1183	1181	112
15°	1136	1133	1138	1150	1152	320
25°	1042	1043	1058	1082	1091	480
35°	909	912	937	964	970	568
45°	742	748	771	786	786	573
55°	556	559	567	569	564	498
65°	360	353	351	339	332	355
75°	169	166	154	134	130	181
85°	31	34	37	38	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1188.3	1186.9	1181.3	1186.9	1185.5
5°	1184.1	1182.7	1177.0	1182.7	1181.3
7.5°	1175.6	1174.2	1170.0	1175.6	1175.6
10°	1165.7	1162.9	1160.1	1168.6	1170.0
12.5°	1153.0	1150.2	1150.2	1160.1	1161.5
15°	1136.1	1133.3	1137.5	1150.2	1151.6
17.5°	1116.3	1114.9	1122.0	1137.5	1140.3
20°	1093.8	1092.4	1103.6	1122.0	1126.2
22.5°	1069.8	1069.8	1082.5	1103.6	1109.3
25°	1041.5	1043.0	1058.5	1082.5	1090.9
27.5°	1011.9	1014.7	1033.1	1059.9	1067.0
30°	979.5	983.7	1004.9	1030.3	1037.3
32.5°	944.2	948.4	972.4	999.2	1006.3
35°	908.9	911.7	937.1	963.9	969.6
37.5°	869.4	873.6	900.4	924.4	930.1
40°	829.9	834.1	859.5	882.1	886.3
42.5°	786.1	791.7	817.1	835.5	838.3
45°	742.3	748.0	770.6	786.1	786.1
47.5°	698.6	701.4	721.2	736.7	735.3
50°	656.3	654.8	673.2	680.3	680.3
52.5°	604.0	608.3	621.0	625.2	621.0
55°	556.1	558.9	567.3	568.8	564.5
57.5°	509.5	508.1	515.1	510.9	505.2
60°	458.7	458.7	458.7	454.4	446.0
62.5°	409.3	406.5	405.0	395.2	390.9
65°	359.9	352.8	351.4	338.7	331.7
67.5°	307.7	304.8	297.8	285.1	272.4
70°	258.3	255.4	247.0	231.5	223.0
72.5°	213.1	210.3	199.0	180.6	169.4
75°	169.4	166.5	153.8	134.1	129.8
77.5°	128.4	127.0	114.3	104.4	103.0
80°	93.1	91.7	80.4	80.4	79.0
82.5°	59.3	59.3	56.5	57.9	59.3
85°	31.0	33.9	36.7	38.1	39.5
87.5°	9.9	15.5	18.3	19.8	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)