

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: P297563

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297563
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-31L83050-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3140.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

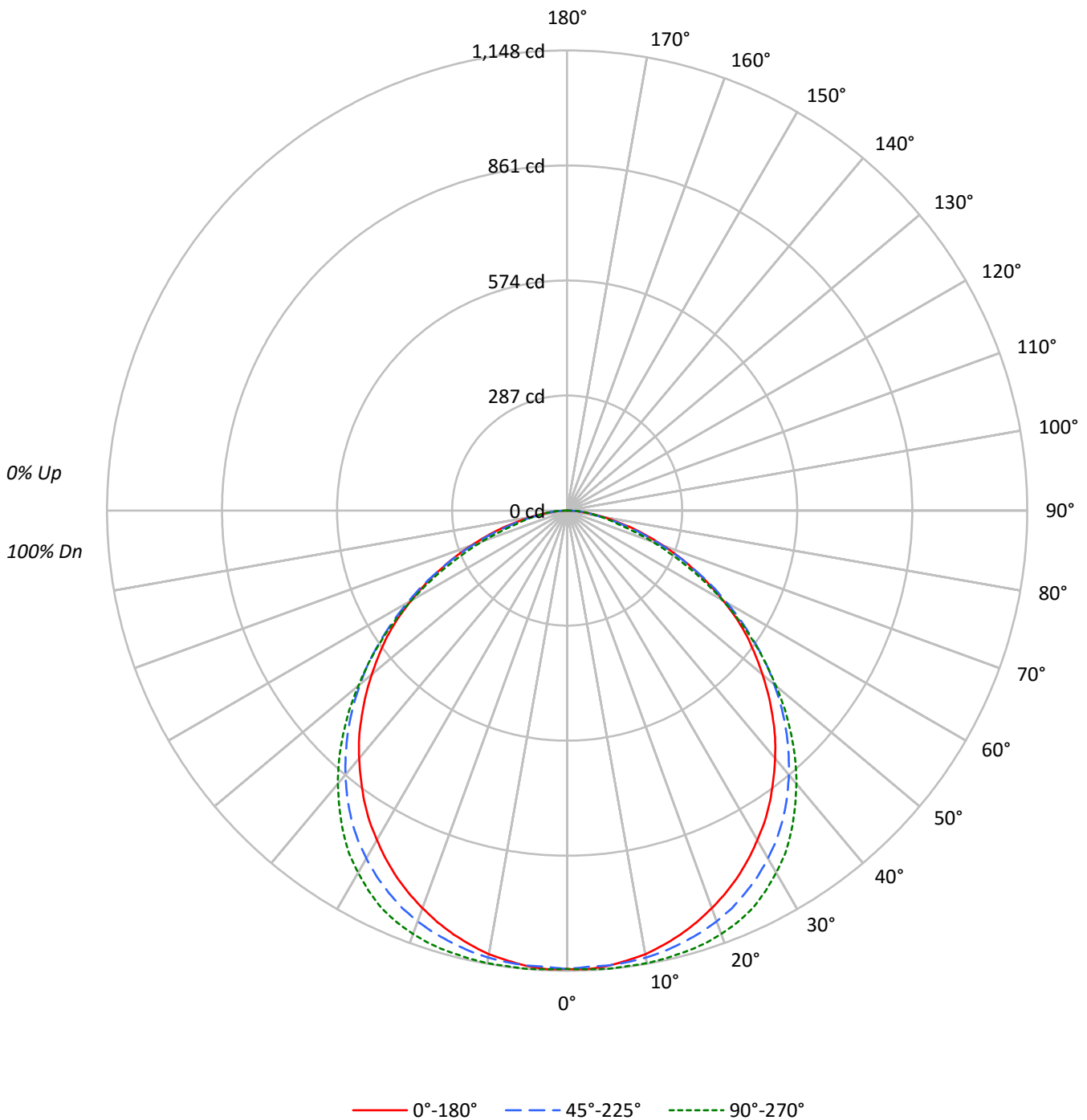
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3078	3078	3078
5°	3082	3078	3101
10°	3072	3095	3133
15°	3050	3108	3175
20°	3022	3123	3219
25°	2992	3125	3250
30°	2948	3114	3240
35°	2901	3085	3205
40°	2836	3023	3126
45°	2758	2939	3008
50°	2664	2822	2846
55°	2571	2670	2657
60°	2421	2474	2414
65°	2231	2240	2115
70°	1996	1952	1776
75°	1734	1618	1370
80°	1390	1260	1260
85°	994	1167	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.5
10°-20°	315.7	10.1
20°-30°	484.8	15.4
30°-40°	583.8	18.6
40°-50°	590.0	18.8
50°-60°	503.3	16.0
60°-70°	344.5	11.0
70°-80°	166.2	5.3
80°-90°	42.8	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°	909.3	29.0
0°-40°	1493.1	47.6
0°-60°	2586.4	82.4
0°-90°	3140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1141	1141	1140	1146	1148	108
15°	1095	1103	1116	1135	1140	309
25°	1008	1023	1053	1084	1095	464
35°	883	903	939	968	976	552
45°	725	744	772	790	790	559
55°	548	558	569	572	566	488
65°	350	355	352	339	332	348
75°	167	167	156	137	132	177
85°	32	35	38	39	39	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.7	1143.7	1143.7	1143.7	1143.7
2.5°	1145.1	1143.7	1139.5	1145.1	1145.1
5°	1140.9	1140.9	1139.5	1146.5	1147.9
7.5°	1132.5	1135.3	1136.7	1145.1	1146.5
10°	1124.1	1126.9	1132.5	1143.7	1146.5
12.5°	1110.1	1115.7	1125.5	1140.9	1143.7
15°	1094.7	1103.1	1115.7	1135.3	1139.5
17.5°	1076.5	1087.7	1104.5	1126.9	1133.9
20°	1055.4	1068.0	1090.5	1115.7	1124.1
22.5°	1033.0	1047.0	1073.7	1103.1	1111.5
25°	1007.8	1023.2	1052.6	1083.5	1094.7
27.5°	979.7	996.6	1028.8	1061.0	1070.8
30°	948.9	967.1	1002.2	1034.4	1042.8
32.5°	918.1	936.3	972.7	1003.6	1013.4
35°	883.0	902.7	939.1	968.5	975.5
37.5°	845.2	864.8	901.3	930.7	933.5
40°	807.3	827.0	860.6	887.2	890.0
42.5°	768.1	786.3	817.2	839.6	842.4
45°	724.6	744.3	772.3	790.5	790.5
47.5°	681.2	700.8	724.6	737.3	737.3
50°	636.3	654.6	674.2	681.2	679.8
52.5°	591.5	608.3	625.1	626.5	623.7
55°	548.0	557.9	569.1	571.9	566.3
57.5°	500.4	508.8	515.8	511.6	507.4
60°	449.9	458.3	459.7	452.7	448.5
62.5°	400.9	407.9	407.9	396.7	389.7
65°	350.4	354.6	351.8	339.2	332.2
67.5°	302.8	305.6	299.9	287.3	276.1
70°	253.7	255.1	248.1	232.7	225.7
72.5°	208.8	210.2	201.8	183.6	175.2
75°	166.8	166.8	155.6	137.4	131.8
77.5°	124.7	129.0	116.3	106.5	106.5
80°	89.7	93.9	81.3	82.7	81.3
82.5°	58.9	63.1	58.9	58.9	58.9
85°	32.2	35.0	37.8	39.2	39.2
87.5°	9.8	16.8	18.2	19.6	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)