

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: P296849

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

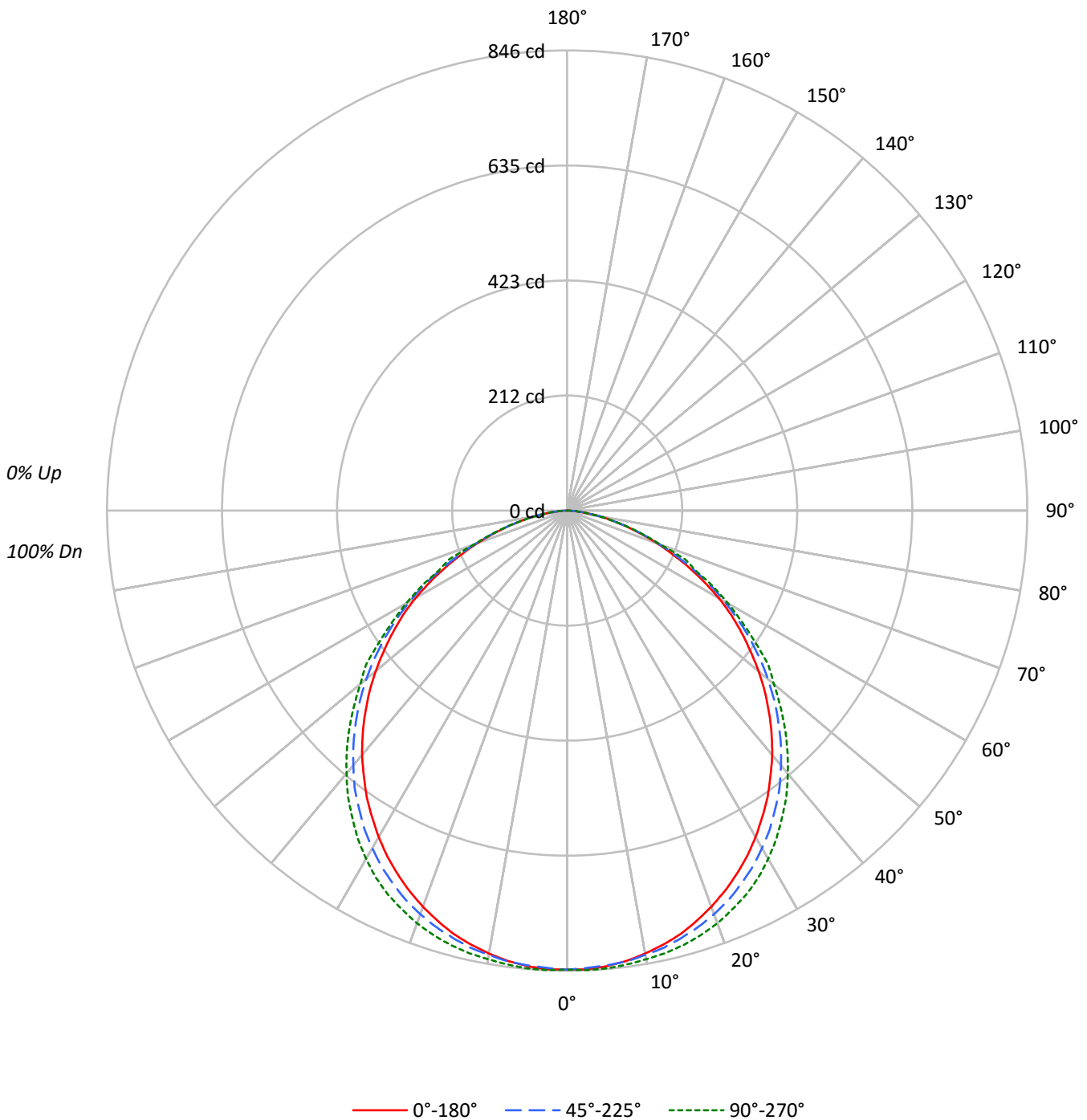
Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1136	1136	1136
5°	1136	1133	1141
10°	1130	1133	1144
15°	1122	1133	1152
20°	1110	1131	1156
25°	1095	1124	1156
30°	1077	1113	1148
35°	1055	1097	1131
40°	1030	1074	1109
45°	999	1045	1077
50°	962	1008	1039
55°	918	960	989
60°	866	899	920
65°	786	812	827
70°	690	706	716
75°	583	591	595
80°	466	472	459
85°	313	326	313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.5
10°-20°	230.0	10.2
20°-30°	349.0	15.4
30°-40°	416.7	18.4
40°-50°	421.8	18.6
50°-60°	364.6	16.1
60°-70°	252.7	11.2
70°-80°	122.3	5.4
80°-90°	26.9	1.2
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°	659.0	29.1
0°-40°	1075.7	47.5
0°-60°	1862.1	82.3
0°-90°	2264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	841	840	839	843	845	80
15°	806	807	813	823	827	227
25°	738	742	757	772	779	340
35°	642	648	668	685	689	401
45°	525	532	549	563	566	405
55°	392	396	409	426	422	350
65°	247	249	255	259	260	244
75°	112	113	114	113	114	120
85°	20	22	21	20	20	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	844.0	844.0	844.0	844.0	844.0
2.5°	844.0	843.2	841.6	844.0	845.6
5°	840.8	839.9	839.1	843.2	844.8
7.5°	835.1	835.1	835.9	839.9	841.6
10°	826.9	827.8	829.4	835.9	837.5
12.5°	817.2	818.8	822.9	830.2	833.4
15°	805.8	807.4	813.1	822.9	826.9
17.5°	791.2	794.5	802.6	813.9	818.0
20°	775.0	779.0	789.6	802.6	807.4
22.5°	757.1	761.1	775.0	788.8	793.6
25°	737.6	742.5	757.1	772.5	779.0
27.5°	716.5	722.2	738.4	754.6	761.1
30°	692.9	699.4	716.5	733.5	739.2
32.5°	667.7	674.2	693.7	710.0	715.7
35°	642.5	648.2	667.7	684.8	688.8
37.5°	614.1	620.6	641.7	656.4	662.0
40°	586.5	593.0	611.7	626.3	631.2
42.5°	556.4	562.9	581.6	595.4	599.5
45°	524.8	532.1	549.1	562.9	566.2
47.5°	493.1	498.8	516.6	528.8	531.3
50°	459.8	465.5	481.7	493.9	496.3
52.5°	424.8	433.8	446.8	455.7	466.3
55°	391.5	395.6	409.4	426.5	421.6
57.5°	358.2	360.7	372.0	379.4	381.0
60°	321.7	324.9	333.9	337.9	342.0
62.5°	283.5	285.9	296.5	300.6	302.2
65°	246.9	249.4	255.1	259.1	259.9
67.5°	209.6	212.0	216.9	220.1	234.8
70°	175.5	177.1	179.5	186.0	182.0
72.5°	143.0	143.8	146.2	146.2	147.0
75°	112.1	112.9	113.7	112.9	114.5
77.5°	83.7	85.3	86.1	85.3	84.5
80°	60.1	61.7	60.9	59.3	59.3
82.5°	39.0	39.8	39.0	38.2	38.2
85°	20.3	21.9	21.1	20.3	20.3
87.5°	7.3	8.1	8.9	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)