

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: P296850

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296850
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2473.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

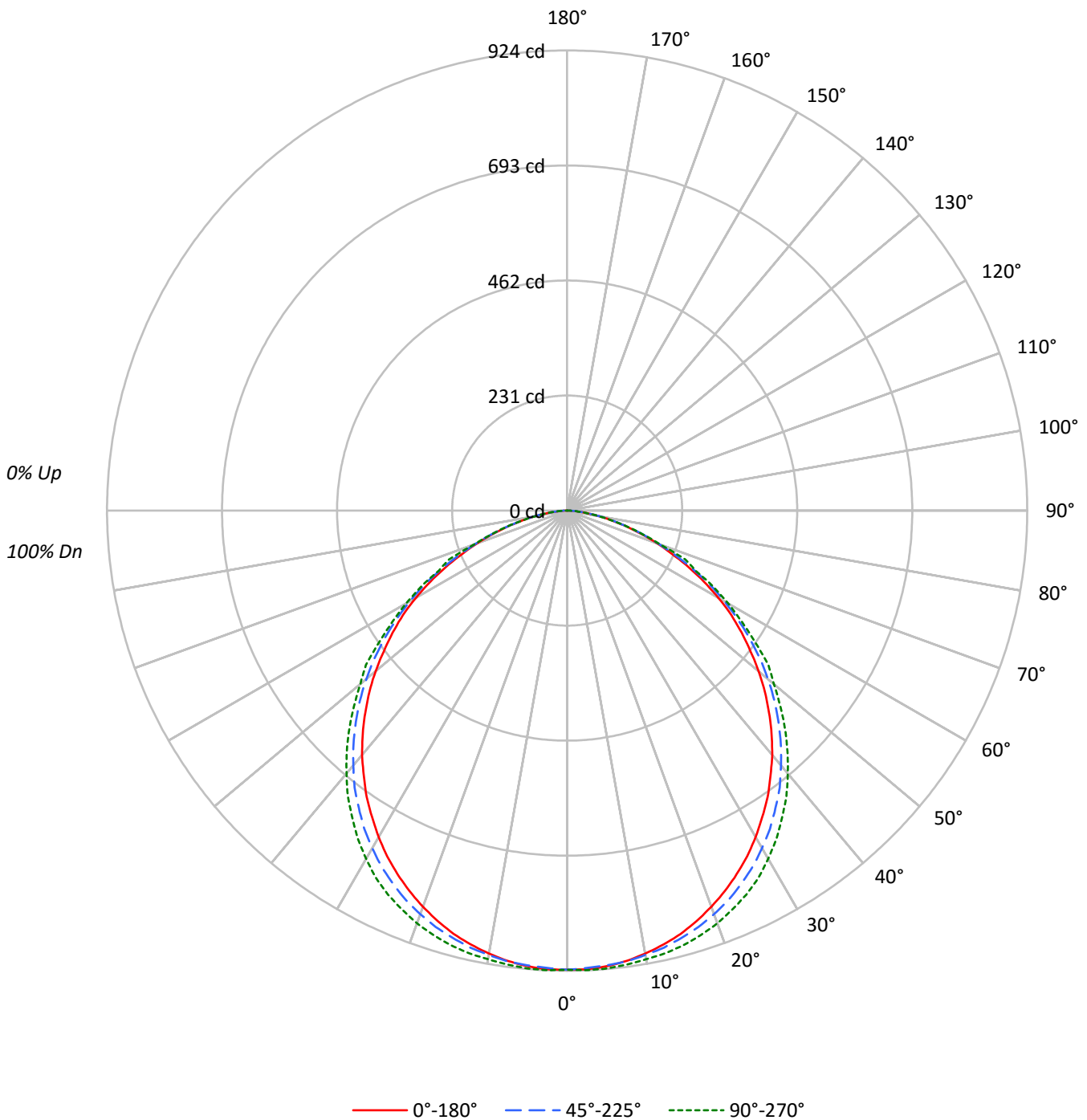
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1240	1240	1240
5°	1240	1238	1246
10°	1234	1238	1250
15°	1226	1237	1258
20°	1212	1235	1263
25°	1196	1228	1263
30°	1176	1216	1255
35°	1153	1198	1236
40°	1125	1173	1211
45°	1091	1141	1177
50°	1051	1101	1135
55°	1003	1049	1080
60°	946	981	1005
65°	859	887	904
70°	754	771	782
75°	636	646	650
80°	509	515	502
85°	343	357	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.5
10°-20°	251.3	10.2
20°-30°	381.2	15.4
30°-40°	455.1	18.4
40°-50°	460.8	18.6
50°-60°	398.3	16.1
60°-70°	276.0	11.2
70°-80°	133.6	5.4
80°-90°	29.4	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°	719.8	29.1
0°-40°	1175.0	47.5
0°-60°	2034.0	82.2
0°-90°	2473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2473.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	918	918	917	921	923	87
15°	880	882	888	899	903	248
25°	806	811	827	844	851	371
35°	702	708	729	748	752	438
45°	573	581	600	615	618	442
55°	428	432	447	466	460	382
65°	270	272	279	283	284	267
75°	122	123	124	123	125	131
85°	22	24	23	22	22	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.9	921.9	921.9	921.9	921.9
2.5°	921.9	921.0	919.3	921.9	923.7
5°	918.4	917.5	916.6	921.0	922.8
7.5°	912.2	912.2	913.0	917.5	919.3
10°	903.3	904.2	905.9	913.0	914.8
12.5°	892.6	894.4	898.8	906.8	910.4
15°	880.2	882.0	888.2	898.8	903.3
17.5°	864.2	867.8	876.7	889.1	893.5
20°	846.5	850.9	862.5	876.7	882.0
22.5°	827.0	831.4	846.5	861.6	866.9
25°	805.7	811.0	827.0	843.8	850.9
27.5°	782.6	788.8	806.6	824.3	831.4
30°	756.9	764.0	782.6	801.2	807.5
32.5°	729.4	736.5	757.8	775.5	781.7
35°	701.9	708.1	729.4	748.0	752.4
37.5°	670.8	677.9	701.0	716.9	723.2
40°	640.6	647.7	668.1	684.1	689.4
42.5°	607.8	614.9	635.3	650.4	654.8
45°	573.2	581.2	599.8	614.9	618.5
47.5°	538.6	544.8	564.3	577.6	580.3
50°	502.2	508.4	526.2	539.5	542.1
52.5°	464.1	473.8	488.0	497.8	509.3
55°	427.7	432.1	447.2	465.8	460.5
57.5°	391.3	394.0	406.4	414.4	416.1
60°	351.4	354.9	364.7	369.1	373.6
62.5°	309.7	312.3	323.9	328.3	330.1
65°	269.7	272.4	278.6	283.1	283.9
67.5°	228.9	231.6	236.9	240.5	256.4
70°	191.7	193.4	196.1	203.2	198.8
72.5°	156.2	157.1	159.7	159.7	160.6
75°	122.4	123.3	124.2	123.3	125.1
77.5°	91.4	93.2	94.1	93.2	92.3
80°	65.7	67.4	66.5	64.8	64.8
82.5°	42.6	43.5	42.6	41.7	41.7
85°	22.2	24.0	23.1	22.2	22.2
87.5°	8.0	8.9	9.8	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)