

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: P297410

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2635.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

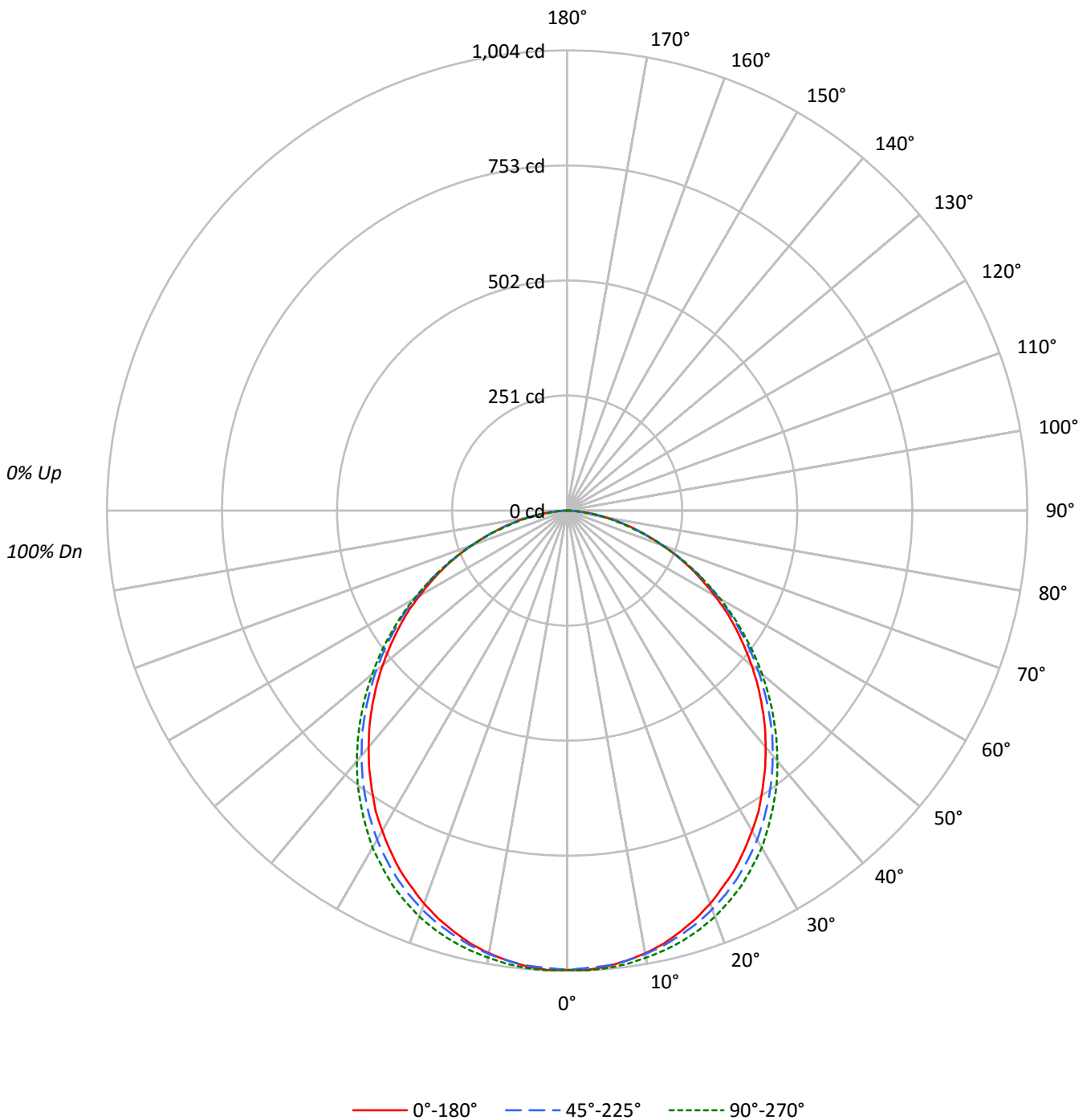
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	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°	1348	1348	1348
5°	1349	1346	1353
10°	1340	1342	1353
15°	1325	1335	1354
20°	1307	1326	1350
25°	1284	1310	1339
30°	1254	1288	1320
35°	1220	1260	1289
40°	1183	1225	1254
45°	1143	1186	1211
50°	1100	1141	1161
55°	1053	1087	1103
60°	1001	1027	1039
65°	944	958	964
70°	866	876	866
75°	780	775	752
80°	660	653	633
85°	494	480	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.6
10°-20°	271.0	10.3
20°-30°	406.4	15.4
30°-40°	478.6	18.2
40°-50°	478.7	18.2
50°-60°	413.0	15.7
60°-70°	297.2	11.3
70°-80°	157.6	6.0
80°-90°	37.6	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°	772.3	29.3
0°-40°	1250.9	47.5
0°-60°	2142.6	81.3
0°-90°	2635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	999	998	997	1000	1002	95
15°	952	954	959	968	972	268
25°	865	870	882	897	902	398
35°	743	752	767	780	785	465
45°	601	609	623	634	636	464
55°	449	454	463	471	470	402
65°	296	297	301	303	303	293
75°	150	148	149	146	145	160
85°	32	32	31	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.1	1002.1	1002.1	1002.1	1002.1
2.5°	1003.0	1001.3	998.6	1002.1	1003.9
5°	998.6	997.7	996.8	1000.4	1002.1
7.5°	990.6	991.5	990.6	995.9	997.7
10°	980.8	981.7	982.6	988.8	990.6
12.5°	968.4	969.3	972.0	979.9	982.6
15°	951.5	954.2	958.6	968.4	972.0
17.5°	933.8	937.3	943.6	955.1	958.6
20°	912.5	916.9	925.8	938.2	942.7
22.5°	888.5	893.0	905.4	918.7	923.1
25°	864.6	869.9	882.3	897.4	901.8
27.5°	836.2	843.3	856.6	871.7	875.2
30°	806.9	813.1	829.1	843.3	849.5
32.5°	777.6	783.8	798.9	813.1	817.5
35°	742.9	751.8	766.9	780.2	784.7
37.5°	709.2	717.2	733.2	746.5	750.9
40°	673.7	680.8	697.7	710.1	713.7
42.5°	638.2	645.3	662.2	671.9	675.5
45°	600.9	608.9	623.1	633.8	636.4
47.5°	563.6	569.9	583.2	592.9	596.5
50°	525.5	531.7	545.0	553.0	554.8
52.5°	487.3	491.7	504.2	511.3	513.9
55°	449.1	453.6	463.3	471.3	470.4
57.5°	412.7	414.5	424.3	429.6	429.6
60°	371.9	373.7	381.7	385.2	386.1
62.5°	333.8	336.4	342.6	343.5	343.5
65°	296.5	297.4	300.9	302.7	302.7
67.5°	259.2	258.3	261.9	261.9	261.0
70°	220.1	221.9	222.8	221.0	220.1
72.5°	184.6	183.7	183.7	182.9	182.9
75°	150.0	148.2	149.1	145.6	144.7
77.5°	118.1	115.4	114.5	112.7	111.0
80°	85.2	85.2	84.3	82.5	81.7
82.5°	56.8	56.8	55.9	54.1	52.4
85°	32.0	32.0	31.1	28.4	27.5
87.5°	10.7	10.7	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)