

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: P297130

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2478.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

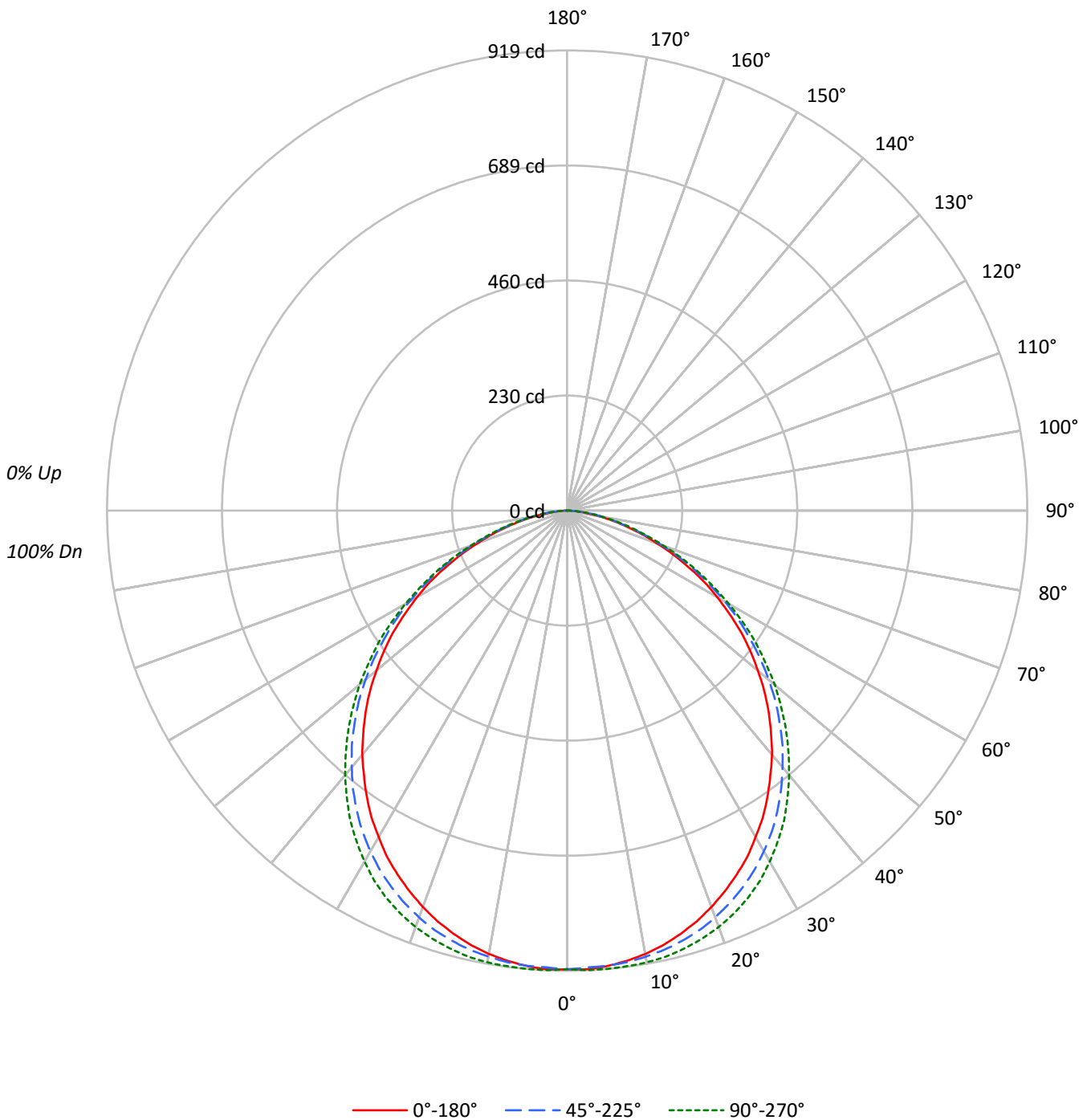
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	47	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	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1233	1233	1233
5°	1234	1232	1241
10°	1229	1236	1252
15°	1219	1239	1261
20°	1206	1238	1267
25°	1190	1232	1268
30°	1169	1221	1258
35°	1146	1203	1241
40°	1118	1176	1211
45°	1083	1142	1176
50°	1041	1100	1133
55°	995	1045	1079
60°	932	979	1003
65°	851	896	918
70°	747	786	806
75°	632	664	688
80°	502	550	564
85°	343	411	397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	3.5
10°-20°	251.3	10.1
20°-30°	381.9	15.4
30°-40°	455.7	18.4
40°-50°	460.2	18.6
50°-60°	396.5	16.0
60°-70°	276.4	11.2
70°-80°	137.0	5.5
80°-90°	31.9	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
0°-30°	720.2	29.1
0°-40°	1175.9	47.5
0°-60°	2032.7	82.0
0°-90°	2478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	913	912	912	917	919	87
15°	875	880	889	901	905	247
25°	802	812	830	847	854	369
35°	698	709	732	749	755	436
45°	569	581	600	614	618	439
55°	424	433	446	456	460	378
65°	267	272	281	284	288	265
75°	122	123	128	130	132	131
85°	22	27	27	25	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.1	916.1	916.1	916.1	916.1
2.5°	917.0	915.2	913.4	917.0	918.7
5°	913.4	912.5	912.5	917.0	918.7
7.5°	907.2	907.2	909.9	916.1	917.8
10°	899.2	901.0	904.5	913.4	916.1
12.5°	888.5	892.1	898.3	909.0	912.5
15°	875.2	879.7	889.4	901.0	905.4
17.5°	860.1	866.4	878.8	892.1	896.5
20°	842.4	850.4	864.6	879.7	885.0
22.5°	822.9	832.6	848.6	864.6	870.8
25°	801.6	812.2	830.0	846.8	853.9
27.5°	779.4	790.0	809.5	826.4	833.5
30°	752.7	765.2	785.6	803.3	809.5
32.5°	727.0	739.4	760.7	776.7	782.9
35°	697.7	709.2	732.3	749.2	755.4
37.5°	666.6	679.9	702.1	717.2	722.6
40°	636.5	648.0	669.3	684.4	689.7
42.5°	602.7	615.1	636.5	649.8	654.2
45°	569.0	581.4	600.1	614.3	617.8
47.5°	534.4	545.9	564.6	576.1	579.6
50°	497.1	507.7	525.5	537.0	541.5
52.5°	461.6	471.3	486.4	496.2	498.9
55°	424.3	433.2	445.6	456.3	459.8
57.5°	384.4	394.1	405.7	414.5	417.2
60°	346.2	354.2	363.9	371.9	372.8
62.5°	308.9	312.5	321.3	328.4	329.3
65°	267.2	272.5	281.4	284.1	288.5
67.5°	229.0	232.6	239.7	243.2	246.8
70°	190.0	192.6	199.7	204.2	205.0
72.5°	156.2	157.1	162.4	166.0	166.9
75°	121.6	123.4	127.8	130.5	132.3
77.5°	92.3	94.1	97.6	99.4	99.4
80°	64.8	67.5	71.0	71.9	72.8
82.5°	41.7	45.3	47.9	48.8	47.0
85°	22.2	26.6	26.6	24.9	25.7
87.5°	8.0	9.8	10.7	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)