

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: P297183

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297183
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-31L92765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2641.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

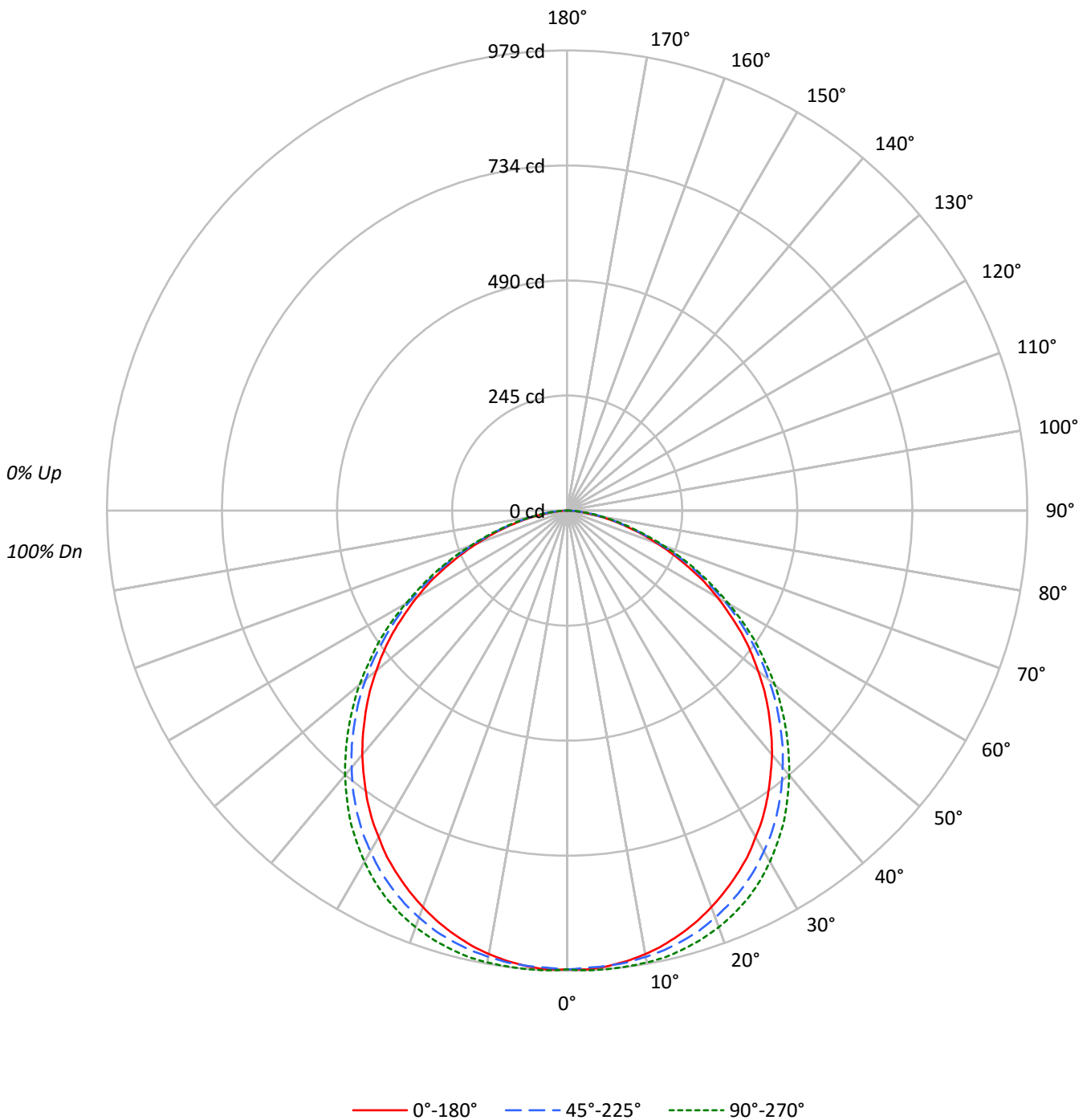
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1314	1314	1314
5°	1315	1313	1323
10°	1309	1317	1334
15°	1299	1320	1344
20°	1286	1319	1351
25°	1268	1313	1351
30°	1246	1301	1340
35°	1221	1282	1322
40°	1191	1253	1291
45°	1154	1217	1253
50°	1109	1172	1208
55°	1061	1114	1150
60°	993	1044	1069
65°	907	955	979
70°	797	838	860
75°	674	708	733
80°	535	587	601
85°	366	438	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	3.5
10°-20°	267.8	10.1
20°-30°	407.0	15.4
30°-40°	485.7	18.4
40°-50°	490.5	18.6
50°-60°	422.6	16.0
60°-70°	294.6	11.2
70°-80°	146.0	5.5
80°-90°	34.0	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°	767.6	29.1
0°-40°	1253.3	47.5
0°-60°	2166.4	82.0
0°-90°	2641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	974	972	972	977	979	92
15°	933	938	948	960	965	263
25°	854	866	885	902	910	394
35°	744	756	780	798	805	465
45°	606	620	640	655	658	467
55°	452	462	475	486	490	403
65°	285	290	300	303	308	283
75°	130	132	136	139	141	140
85°	24	28	28	26	27	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.3	976.3	976.3	976.3	976.3
2.5°	977.3	975.4	973.5	977.3	979.2
5°	973.5	972.5	972.5	977.3	979.2
7.5°	966.9	966.9	969.7	976.3	978.2
10°	958.3	960.2	964.0	973.5	976.3
12.5°	947.0	950.8	957.4	968.8	972.5
15°	932.8	937.5	947.9	960.2	965.0
17.5°	916.7	923.3	936.6	950.8	955.5
20°	897.8	906.3	921.5	937.5	943.2
22.5°	877.0	887.4	904.4	921.5	928.1
25°	854.3	865.6	884.6	902.5	910.1
27.5°	830.6	842.0	862.8	880.8	888.3
30°	802.2	815.5	837.3	856.2	862.8
32.5°	774.8	788.1	810.8	827.8	834.4
35°	743.6	755.9	780.5	798.5	805.1
37.5°	710.5	724.7	748.3	764.4	770.1
40°	678.3	690.6	713.3	729.4	735.1
42.5°	642.4	655.6	678.3	692.5	697.2
45°	606.4	619.7	639.5	654.7	658.4
47.5°	569.5	581.8	601.7	614.0	617.8
50°	529.8	541.1	560.1	572.4	577.1
52.5°	491.9	502.4	518.4	528.8	531.7
55°	452.2	461.7	474.9	486.3	490.1
57.5°	409.6	420.0	432.3	441.8	444.6
60°	369.0	377.5	387.9	396.4	397.3
62.5°	329.2	333.0	342.5	350.0	351.0
65°	284.8	290.4	299.9	302.7	307.5
67.5°	244.1	247.9	255.4	259.2	263.0
70°	202.5	205.3	212.9	217.6	218.5
72.5°	166.5	167.5	173.1	176.9	177.9
75°	129.6	131.5	136.2	139.1	141.0
77.5°	98.4	100.3	104.1	106.0	106.0
80°	69.1	71.9	75.7	76.6	77.6
82.5°	44.5	48.2	51.1	52.0	50.1
85°	23.7	28.4	28.4	26.5	27.4
87.5°	8.5	10.4	11.4	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)