

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: P297039

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297039
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-31L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2675.0 lumens
Efficiency: N/A
Efficacy: 126.2 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

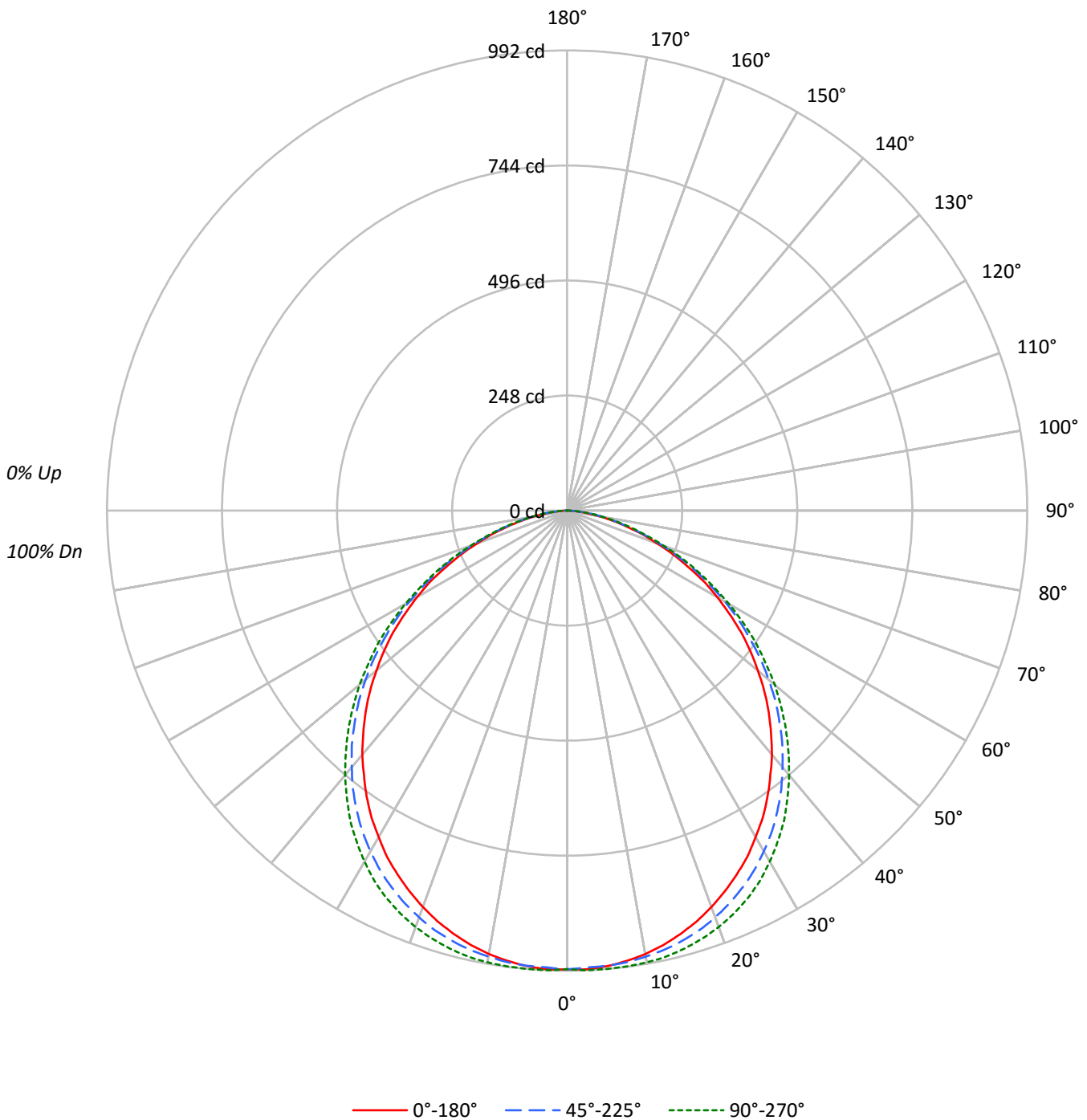
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1331	1331	1331
5°	1332	1331	1340
10°	1326	1334	1351
15°	1316	1337	1361
20°	1302	1336	1368
25°	1285	1330	1368
30°	1262	1317	1358
35°	1237	1298	1339
40°	1207	1269	1308
45°	1169	1233	1269
50°	1123	1187	1223
55°	1074	1128	1164
60°	1006	1057	1083
65°	918	967	991
70°	807	848	871
75°	683	717	742
80°	542	594	609
85°	371	443	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	3.5
10°-20°	271.3	10.1
20°-30°	412.2	15.4
30°-40°	491.9	18.4
40°-50°	496.8	18.6
50°-60°	428.0	16.0
60°-70°	298.4	11.2
70°-80°	147.9	5.5
80°-90°	34.5	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°	777.5	29.1
0°-40°	1269.4	47.5
0°-60°	2194.2	82.0
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	986	985	985	990	992	94
15°	945	950	960	973	977	266
25°	865	877	896	914	922	399
35°	753	766	790	809	816	471
45°	614	628	648	663	667	473
55°	458	468	481	492	496	408
65°	288	294	304	307	311	286
75°	131	133	138	141	143	142
85°	24	29	29	27	28	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	988.9	988.9	988.9	988.9	988.9
2.5°	989.8	987.9	986.0	989.8	991.8
5°	986.0	985.1	985.1	989.8	991.8
7.5°	979.3	979.3	982.2	988.9	990.8
10°	970.7	972.6	976.4	986.0	988.9
12.5°	959.2	963.0	969.7	981.2	985.1
15°	944.8	949.6	960.1	972.6	977.4
17.5°	928.5	935.2	948.6	963.0	967.8
20°	909.4	918.0	933.3	949.6	955.4
22.5°	888.3	898.8	916.1	933.3	940.0
25°	865.3	876.8	895.9	914.1	921.8
27.5°	841.3	852.8	873.9	892.1	899.8
30°	812.6	826.0	848.0	867.2	873.9
32.5°	784.8	798.2	821.2	838.4	845.2
35°	753.2	765.6	790.5	808.7	815.5
37.5°	719.6	734.0	758.0	774.2	780.0
40°	687.0	699.5	722.5	738.8	744.5
42.5°	650.6	664.1	687.0	701.4	706.2
45°	614.2	627.6	647.8	663.1	666.9
47.5°	576.9	589.3	609.4	621.9	625.7
50°	536.6	548.1	567.3	579.7	584.5
52.5°	498.3	508.8	525.1	535.6	538.5
55°	458.0	467.6	481.0	492.5	496.4
57.5°	414.9	425.5	437.9	447.5	450.4
60°	373.7	382.3	392.9	401.5	402.5
62.5°	333.5	337.3	346.9	354.5	355.5
65°	288.4	294.2	303.8	306.6	311.4
67.5°	247.2	251.1	258.7	262.6	266.4
70°	205.1	207.9	215.6	220.4	221.4
72.5°	168.6	169.6	175.4	179.2	180.1
75°	131.3	133.2	138.0	140.9	142.8
77.5°	99.7	101.6	105.4	107.3	107.3
80°	70.0	72.8	76.7	77.6	78.6
82.5°	45.0	48.9	51.7	52.7	50.8
85°	24.0	28.7	28.7	26.8	27.8
87.5°	8.6	10.5	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)