

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: P297319

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297319
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-31L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.0 lumens
Efficiency: N/A
Efficacy: 134.2 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

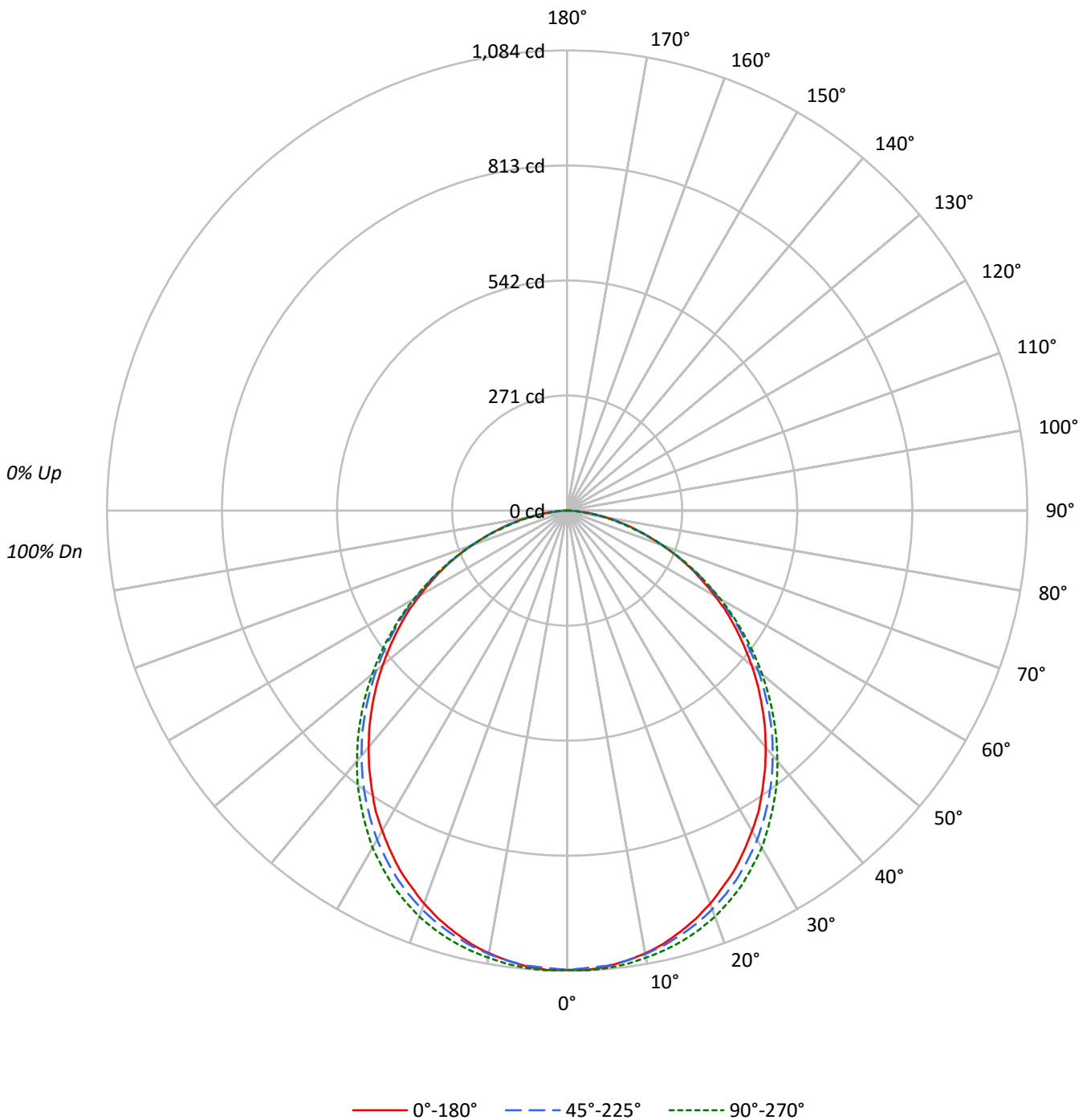
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1456	1456	1456
5°	1456	1454	1461
10°	1447	1449	1461
15°	1431	1442	1462
20°	1411	1431	1457
25°	1386	1414	1446
30°	1354	1391	1425
35°	1318	1360	1392
40°	1278	1323	1353
45°	1235	1280	1308
50°	1188	1232	1254
55°	1137	1174	1191
60°	1081	1109	1122
65°	1019	1034	1040
70°	935	947	935
75°	842	837	812
80°	713	705	683
85°	533	517	459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	3.6
10°-20°	292.6	10.3
20°-30°	438.8	15.4
30°-40°	516.7	18.2
40°-50°	516.8	18.2
50°-60°	445.9	15.7
60°-70°	320.9	11.3
70°-80°	170.2	6.0
80°-90°	40.6	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°	833.9	29.3
0°-40°	1350.6	47.5
0°-60°	2313.3	81.3
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1078	1077	1076	1080	1082	102
15°	1027	1030	1035	1046	1049	290
25°	934	939	953	969	974	429
35°	802	812	828	842	847	502
45°	649	657	673	684	687	501
55°	485	490	500	509	508	434
65°	320	321	325	327	327	317
75°	162	160	161	157	156	172
85°	34	34	34	31	30	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.0	1082.0	1082.0	1082.0	1082.0
2.5°	1083.0	1081.0	1078.2	1082.0	1083.9
5°	1078.2	1077.2	1076.3	1080.1	1082.0
7.5°	1069.5	1070.5	1069.5	1075.3	1077.2
10°	1059.0	1060.0	1060.9	1067.6	1069.5
12.5°	1045.6	1046.5	1049.4	1058.0	1060.9
15°	1027.4	1030.3	1035.0	1045.6	1049.4
17.5°	1008.2	1012.0	1018.8	1031.2	1035.0
20°	985.2	990.0	999.6	1013.0	1017.8
22.5°	959.3	964.1	977.5	991.9	996.7
25°	933.5	939.2	952.6	968.9	973.7
27.5°	902.8	910.5	924.8	941.1	945.0
30°	871.2	877.9	895.1	910.5	917.2
32.5°	839.5	846.2	862.5	877.9	882.7
35°	802.2	811.7	828.0	842.4	847.2
37.5°	765.7	774.4	791.6	806.0	810.8
40°	727.4	735.1	753.3	766.7	770.5
42.5°	689.1	696.7	714.9	725.5	729.3
45°	648.8	657.4	672.8	684.3	687.2
47.5°	608.6	615.3	629.7	640.2	644.0
50°	567.4	574.1	588.4	597.1	599.0
52.5°	526.1	530.9	544.4	552.0	554.9
55°	484.9	489.7	500.3	508.9	507.9
57.5°	445.6	447.6	458.1	463.9	463.9
60°	401.6	403.5	412.1	415.9	416.9
62.5°	360.3	363.2	369.9	370.9	370.9
65°	320.1	321.1	324.9	326.8	326.8
67.5°	279.8	278.9	282.7	282.7	281.8
70°	237.7	239.6	240.6	238.6	237.7
72.5°	199.3	198.4	198.4	197.4	197.4
75°	162.0	160.0	161.0	157.2	156.2
77.5°	127.5	124.6	123.6	121.7	119.8
80°	92.0	92.0	91.0	89.1	88.2
82.5°	61.3	61.3	60.4	58.5	56.5
85°	34.5	34.5	33.5	30.7	29.7
87.5°	11.5	11.5	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)