

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: P297323

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297323
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.0 lumens
Efficiency: N/A
Efficacy: 145.8 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

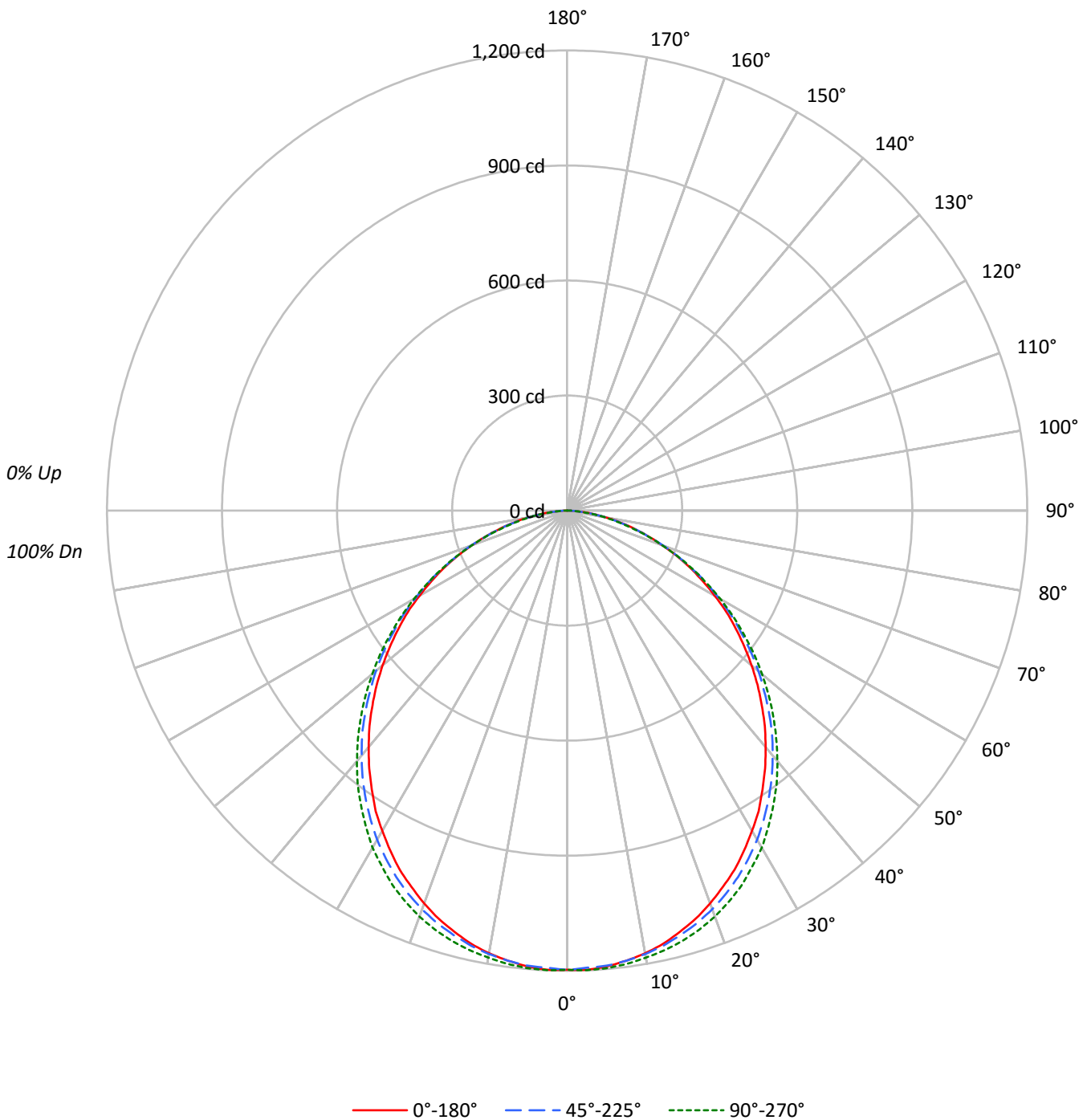
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1611	1611	1611
5°	1612	1609	1618
10°	1602	1604	1617
15°	1584	1596	1618
20°	1561	1584	1613
25°	1534	1565	1600
30°	1498	1539	1577
35°	1458	1505	1540
40°	1414	1464	1498
45°	1366	1417	1447
50°	1315	1363	1388
55°	1259	1299	1319
60°	1196	1227	1242
65°	1128	1145	1152
70°	1035	1048	1035
75°	932	926	899
80°	789	781	756
85°	590	573	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.6
10°-20°	323.9	10.3
20°-30°	485.7	15.4
30°-40°	571.9	18.2
40°-50°	572.0	18.2
50°-60°	493.6	15.7
60°-70°	355.2	11.3
70°-80°	188.4	6.0
80°-90°	44.9	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°	923.0	29.3
0°-40°	1494.9	47.5
0°-60°	2560.5	81.3
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1193	1192	1191	1196	1198	113
15°	1137	1140	1146	1157	1162	321
25°	1033	1040	1054	1072	1078	475
35°	888	898	916	932	938	555
45°	718	728	745	757	761	554
55°	537	542	554	563	562	480
65°	354	355	360	362	362	350
75°	179	177	178	174	173	191
85°	38	38	37	34	33	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1198.7	1196.6	1193.4	1197.6	1199.7
5°	1193.4	1192.3	1191.3	1195.5	1197.6
7.5°	1183.8	1184.9	1183.8	1190.2	1192.3
10°	1172.2	1173.2	1174.3	1181.7	1183.8
12.5°	1157.3	1158.4	1161.6	1171.1	1174.3
15°	1137.2	1140.3	1145.6	1157.3	1161.6
17.5°	1115.9	1120.2	1127.6	1141.4	1145.6
20°	1090.5	1095.8	1106.4	1121.2	1126.6
22.5°	1061.8	1067.1	1082.0	1097.9	1103.2
25°	1033.2	1039.6	1054.4	1072.5	1077.8
27.5°	999.3	1007.7	1023.7	1041.7	1045.9
30°	964.3	971.7	990.8	1007.7	1015.2
32.5°	929.2	936.7	954.7	971.7	977.0
35°	887.9	898.5	916.5	932.4	937.7
37.5°	847.6	857.1	876.2	892.1	897.4
40°	805.1	813.6	833.8	848.6	852.9
42.5°	762.7	771.2	791.3	803.0	807.3
45°	718.1	727.7	744.7	757.4	760.6
47.5°	673.6	681.0	696.9	708.6	712.8
50°	628.0	635.4	651.3	660.9	663.0
52.5°	582.4	587.7	602.5	611.0	614.2
55°	536.8	542.1	553.7	563.3	562.2
57.5°	493.3	495.4	507.1	513.4	513.4
60°	444.5	446.6	456.1	460.4	461.4
62.5°	398.9	402.0	409.5	410.5	410.5
65°	354.3	355.4	359.6	361.7	361.7
67.5°	309.7	308.7	312.9	312.9	311.9
70°	263.1	265.2	266.3	264.1	263.1
72.5°	220.6	219.6	219.6	218.5	218.5
75°	179.3	177.2	178.2	174.0	172.9
77.5°	141.1	137.9	136.8	134.7	132.6
80°	101.8	101.8	100.8	98.7	97.6
82.5°	67.9	67.9	66.8	64.7	62.6
85°	38.2	38.2	37.1	33.9	32.9
87.5°	12.7	12.7	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)