

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: P297325

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297325
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-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

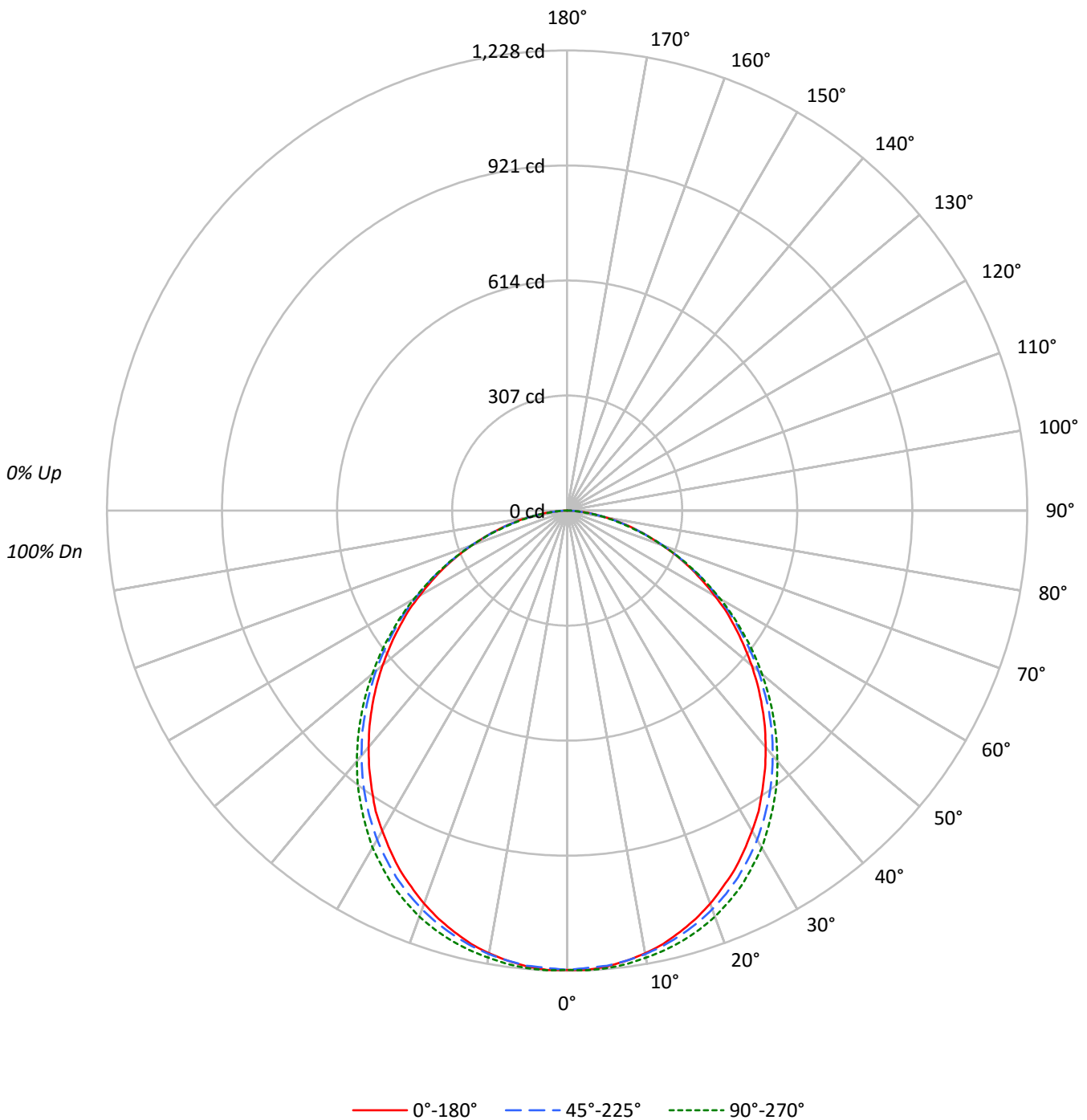
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1649	1649	1649
5°	1650	1647	1656
10°	1639	1642	1655
15°	1621	1633	1656
20°	1598	1621	1651
25°	1570	1602	1638
30°	1533	1576	1614
35°	1493	1541	1577
40°	1447	1499	1533
45°	1399	1450	1481
50°	1345	1395	1420
55°	1289	1329	1350
60°	1224	1256	1271
65°	1154	1172	1179
70°	1059	1072	1059
75°	954	948	920
80°	807	799	774
85°	604	587	520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.6
10°-20°	331.5	10.3
20°-30°	497.1	15.4
30°-40°	585.4	18.2
40°-50°	585.5	18.2
50°-60°	505.2	15.7
60°-70°	363.5	11.3
70°-80°	192.8	6.0
80°-90°	46.0	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°	944.7	29.3
0°-40°	1530.0	47.5
0°-60°	2620.7	81.3
0°-90°	3223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1221	1220	1219	1224	1226	116
15°	1164	1167	1173	1184	1189	328
25°	1058	1064	1079	1098	1103	486
35°	909	920	938	954	960	569
45°	735	745	762	775	778	567
55°	549	555	567	576	575	492
65°	363	364	368	370	370	359
75°	184	181	182	178	177	195
85°	39	39	38	35	34	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1225.8	1225.8	1225.8	1225.8	1225.8
2.5°	1226.9	1224.7	1221.4	1225.8	1227.9
5°	1221.4	1220.3	1219.3	1223.6	1225.8
7.5°	1211.7	1212.7	1211.7	1218.2	1220.3
10°	1199.7	1200.8	1201.9	1209.5	1211.7
12.5°	1184.5	1185.6	1188.9	1198.6	1201.9
15°	1163.9	1167.1	1172.6	1184.5	1188.9
17.5°	1142.2	1146.5	1154.1	1168.2	1172.6
20°	1116.1	1121.5	1132.4	1147.6	1153.0
22.5°	1086.8	1092.2	1107.4	1123.7	1129.1
25°	1057.5	1064.0	1079.2	1097.7	1103.1
27.5°	1022.7	1031.4	1047.7	1066.2	1070.5
30°	986.9	994.5	1014.1	1031.4	1039.0
32.5°	951.1	958.7	977.1	994.5	999.9
35°	908.7	919.6	938.1	954.3	959.8
37.5°	867.5	877.3	896.8	913.1	918.5
40°	824.1	832.7	853.4	868.6	872.9
42.5°	780.6	789.3	809.9	821.9	826.2
45°	735.0	744.8	762.2	775.2	778.5
47.5°	689.4	697.0	713.3	725.3	729.6
50°	642.7	650.3	666.6	676.4	678.6
52.5°	596.1	601.5	616.7	625.4	628.6
55°	549.4	554.8	566.7	576.5	575.4
57.5°	504.9	507.0	519.0	525.5	525.5
60°	454.9	457.1	466.9	471.2	472.3
62.5°	408.2	411.5	419.1	420.2	420.2
65°	362.6	363.7	368.1	370.2	370.2
67.5°	317.0	315.9	320.3	320.3	319.2
70°	269.3	271.4	272.5	270.3	269.3
72.5°	225.8	224.7	224.7	223.7	223.7
75°	183.5	181.3	182.4	178.1	177.0
77.5°	144.4	141.1	140.1	137.9	135.7
80°	104.2	104.2	103.1	101.0	99.9
82.5°	69.5	69.5	68.4	66.2	64.1
85°	39.1	39.1	38.0	34.7	33.7
87.5°	13.0	13.0	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)