

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: P297145

Luminaire Tested: **D3X-WG-45L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297145
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-45L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3635.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

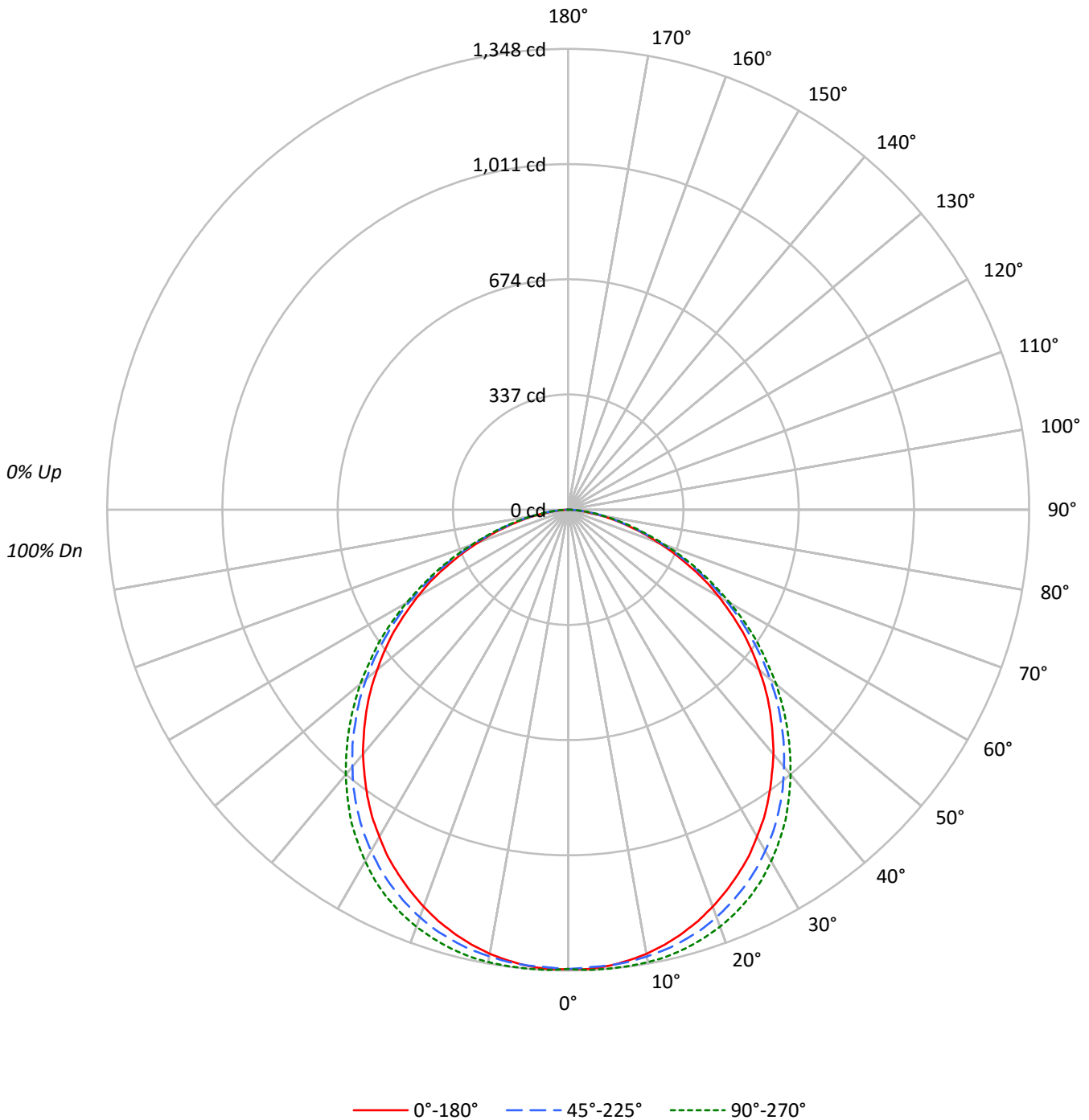
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1808	1808	1808
5°	1810	1808	1820
10°	1802	1813	1836
15°	1788	1817	1850
20°	1769	1816	1859
25°	1746	1807	1860
30°	1716	1790	1845
35°	1681	1764	1820
40°	1640	1724	1777
45°	1588	1675	1725
50°	1526	1614	1663
55°	1460	1533	1582
60°	1366	1437	1472
65°	1248	1314	1347
70°	1096	1153	1183
75°	927	975	1009
80°	737	807	828
85°	503	604	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.5
10°-20°	368.6	10.1
20°-30°	560.2	15.4
30°-40°	668.5	18.4
40°-50°	675.1	18.6
50°-60°	581.7	16.0
60°-70°	405.5	11.2
70°-80°	200.9	5.5
80°-90°	46.9	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°	1056.5	29.1
0°-40°	1725.0	47.5
0°-60°	2981.7	82.0
0°-90°	3635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1344	1344	1344	1344	1344	
5°	1340	1339	1339	1345	1348	127
15°	1284	1290	1305	1322	1328	362
25°	1176	1191	1218	1242	1253	542
35°	1024	1040	1074	1099	1108	640
45°	835	853	880	901	906	643
55°	622	635	654	669	674	555
65°	392	400	413	417	423	389
75°	178	181	188	191	194	192
85°	33	39	39	36	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1343.8	1343.8	1343.8	1343.8	1343.8
2.5°	1345.1	1342.5	1339.9	1345.1	1347.7
5°	1339.9	1338.6	1338.6	1345.1	1347.7
7.5°	1330.8	1330.8	1334.7	1343.8	1346.4
10°	1319.0	1321.6	1326.9	1339.9	1343.8
12.5°	1303.4	1308.6	1317.7	1333.4	1338.6
15°	1283.9	1290.4	1304.7	1321.6	1328.2
17.5°	1261.7	1270.9	1289.1	1308.6	1315.1
20°	1235.7	1247.4	1268.3	1290.4	1298.2
22.5°	1207.1	1221.4	1244.8	1268.3	1277.4
25°	1175.8	1191.4	1217.5	1242.2	1252.6
27.5°	1143.3	1158.9	1187.5	1212.3	1222.7
30°	1104.2	1122.4	1152.4	1178.4	1187.5
32.5°	1066.4	1084.7	1115.9	1139.4	1148.5
35°	1023.5	1040.4	1074.2	1099.0	1108.1
37.5°	977.9	997.4	1030.0	1052.1	1059.9
40°	933.6	950.5	981.8	1003.9	1011.7
42.5°	884.1	902.4	933.6	953.1	959.7
45°	834.7	852.9	880.2	901.1	906.3
47.5°	783.9	800.8	828.1	845.1	850.3
50°	729.2	744.8	770.9	787.8	794.3
52.5°	677.1	691.4	713.6	727.9	731.8
55°	622.4	635.4	653.7	669.3	674.5
57.5°	563.8	578.1	595.1	608.1	612.0
60°	507.8	519.5	533.9	545.6	546.9
62.5°	453.1	458.3	471.4	481.8	483.1
65°	391.9	399.7	412.8	416.7	423.2
67.5°	335.9	341.2	351.6	356.8	362.0
70°	278.7	282.6	293.0	299.5	300.8
72.5°	229.2	230.5	238.3	243.5	244.8
75°	178.4	181.0	187.5	191.4	194.0
77.5°	135.4	138.0	143.2	145.8	145.8
80°	95.1	99.0	104.2	105.5	106.8
82.5°	61.2	66.4	70.3	71.6	69.0
85°	32.6	39.1	39.1	36.5	37.8
87.5°	11.7	14.3	15.6	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)