

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: P297215

Luminaire Tested: **D3X-WG-50L92765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297215
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-50L92765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

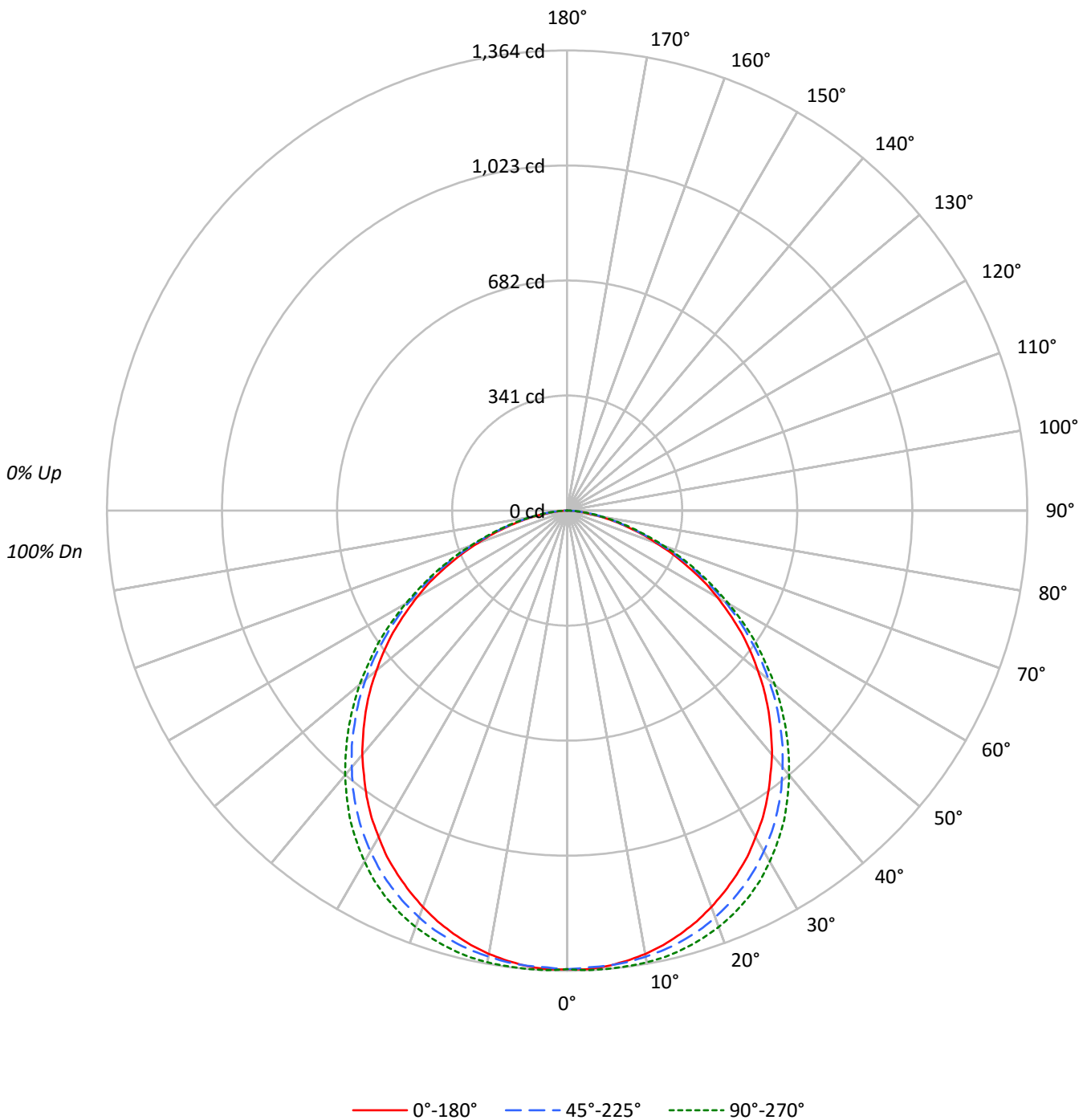
Input Watts (W): 34.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1829	1829	1829
5°	1831	1829	1842
10°	1823	1834	1858
15°	1810	1839	1872
20°	1790	1837	1881
25°	1766	1829	1882
30°	1736	1812	1867
35°	1701	1785	1842
40°	1659	1745	1798
45°	1607	1695	1745
50°	1544	1633	1682
55°	1477	1552	1601
60°	1383	1454	1489
65°	1263	1330	1363
70°	1109	1166	1197
75°	938	986	1020
80°	745	817	837
85°	508	610	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.5
10°-20°	373.0	10.1
20°-30°	566.8	15.4
30°-40°	676.4	18.4
40°-50°	683.1	18.6
50°-60°	588.5	16.0
60°-70°	410.3	11.2
70°-80°	203.3	5.5
80°-90°	47.4	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°	1069.0	29.1
0°-40°	1745.4	47.5
0°-60°	3017.0	82.0
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1356	1354	1354	1361	1364	129
15°	1299	1306	1320	1337	1344	366
25°	1190	1206	1232	1257	1268	548
35°	1036	1053	1087	1112	1121	647
45°	844	863	891	912	917	651
55°	630	643	661	677	682	561
65°	397	404	418	422	428	394
75°	180	183	190	194	196	195
85°	33	40	40	37	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.7	1359.7	1359.7	1359.7	1359.7
2.5°	1361.0	1358.4	1355.7	1361.0	1363.6
5°	1355.7	1354.4	1354.4	1361.0	1363.6
7.5°	1346.5	1346.5	1350.5	1359.7	1362.3
10°	1334.6	1337.3	1342.6	1355.7	1359.7
12.5°	1318.8	1324.1	1333.3	1349.1	1354.4
15°	1299.1	1305.7	1320.2	1337.3	1343.9
17.5°	1276.7	1285.9	1304.3	1324.1	1330.7
20°	1250.3	1262.2	1283.3	1305.7	1313.6
22.5°	1221.3	1235.8	1259.5	1283.3	1292.5
25°	1189.7	1205.5	1231.9	1256.9	1267.5
27.5°	1156.8	1172.6	1201.6	1226.6	1237.1
30°	1117.3	1135.7	1166.0	1192.4	1201.6
32.5°	1079.0	1097.5	1129.1	1152.8	1162.1
35°	1035.6	1052.7	1087.0	1112.0	1121.2
37.5°	989.5	1009.2	1042.2	1064.6	1072.5
40°	944.7	961.8	993.4	1015.8	1023.7
42.5°	894.6	913.0	944.7	964.4	971.0
45°	844.5	863.0	890.6	911.7	917.0
47.5°	793.1	810.3	837.9	855.1	860.3
50°	737.8	753.6	780.0	797.1	803.7
52.5°	685.1	699.6	722.0	736.5	740.4
55°	629.8	642.9	661.4	677.2	682.5
57.5°	570.5	585.0	602.1	615.3	619.2
60°	513.8	525.7	540.2	552.0	553.4
62.5°	458.5	463.8	476.9	487.5	488.8
65°	396.6	404.5	417.7	421.6	428.2
67.5°	339.9	345.2	355.7	361.0	366.3
70°	281.9	285.9	296.4	303.0	304.3
72.5°	231.9	233.2	241.1	246.4	247.7
75°	180.5	183.1	189.7	193.7	196.3
77.5°	137.0	139.7	144.9	147.6	147.6
80°	96.2	100.1	105.4	106.7	108.0
82.5°	61.9	67.2	71.1	72.5	69.8
85°	32.9	39.5	39.5	36.9	38.2
87.5°	11.9	14.5	15.8	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)