

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: P297216

Luminaire Tested: **D3X-WG-50L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297216
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3824.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

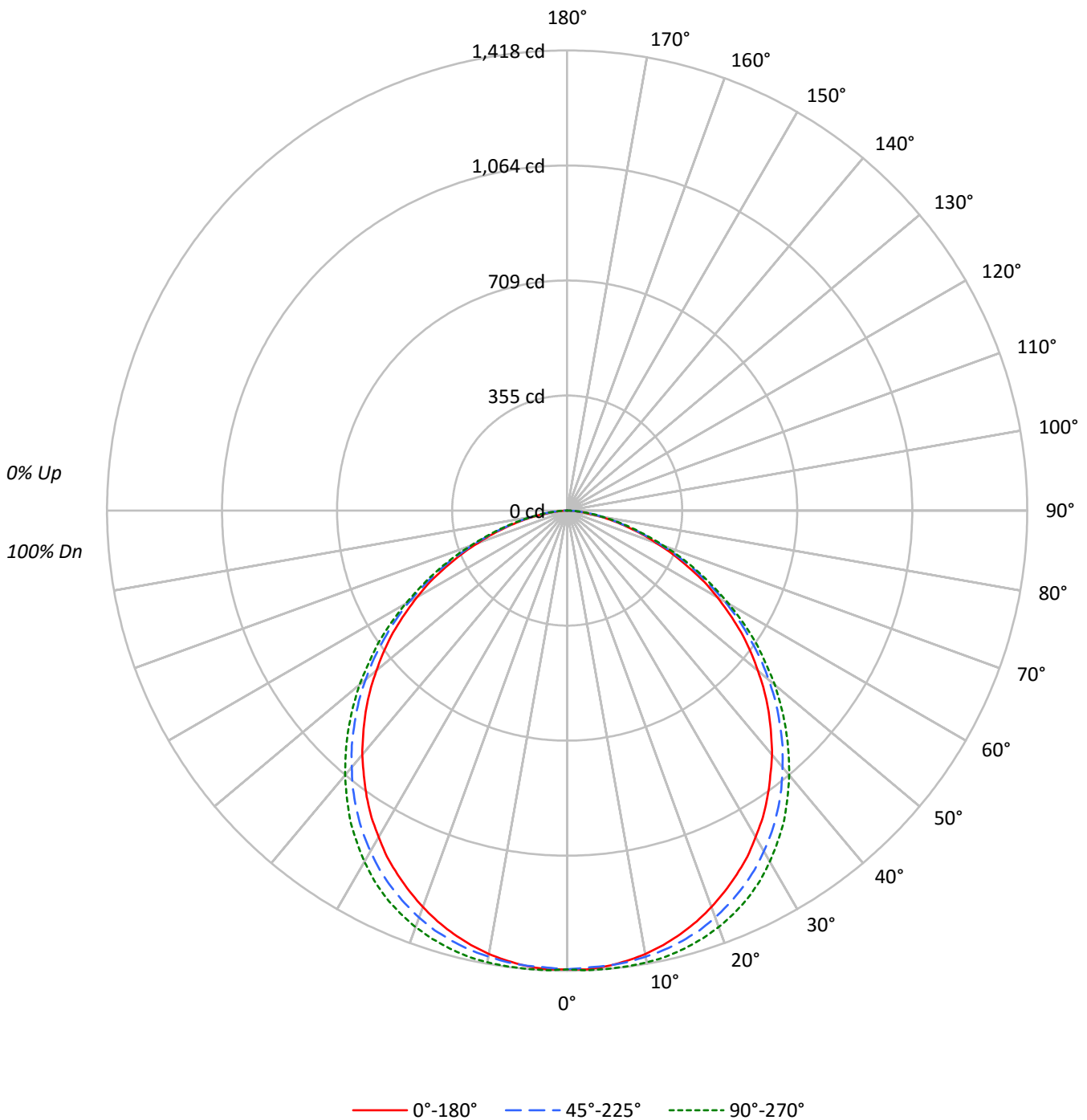
Input Watts (W): 34.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1902	1902	1902
5°	1904	1902	1915
10°	1896	1907	1931
15°	1881	1912	1946
20°	1861	1910	1955
25°	1836	1901	1956
30°	1805	1883	1941
35°	1769	1856	1915
40°	1725	1814	1869
45°	1671	1762	1814
50°	1606	1697	1749
55°	1536	1613	1665
60°	1438	1511	1548
65°	1313	1382	1417
70°	1153	1212	1245
75°	976	1026	1061
80°	775	849	870
85°	528	634	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.5
10°-20°	387.8	10.1
20°-30°	589.3	15.4
30°-40°	703.2	18.4
40°-50°	710.2	18.6
50°-60°	611.9	16.0
60°-70°	426.6	11.2
70°-80°	211.4	5.5
80°-90°	49.3	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°	1111.4	29.1
0°-40°	1814.6	47.5
0°-60°	3136.8	82.0
0°-90°	3824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1414	1414	1414	1414	1414	
5°	1410	1408	1408	1415	1418	134
15°	1351	1358	1373	1390	1397	381
25°	1237	1253	1281	1307	1318	570
35°	1077	1094	1130	1156	1166	673
45°	878	897	926	948	953	677
55°	655	668	688	704	710	584
65°	412	420	434	438	445	409
75°	188	190	197	201	204	202
85°	34	41	41	38	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.7	1413.7	1413.7	1413.7	1413.7
2.5°	1415.0	1412.3	1409.5	1415.0	1417.8
5°	1409.5	1408.2	1408.2	1415.0	1417.8
7.5°	1400.0	1400.0	1404.1	1413.7	1416.4
10°	1387.6	1390.4	1395.8	1409.5	1413.7
12.5°	1371.2	1376.7	1386.3	1402.7	1408.2
15°	1350.6	1357.5	1372.6	1390.4	1397.2
17.5°	1327.4	1336.9	1356.1	1376.7	1383.5
20°	1300.0	1312.3	1334.2	1357.5	1365.7
22.5°	1269.8	1284.9	1309.5	1334.2	1343.8
25°	1236.9	1253.4	1280.8	1306.8	1317.8
27.5°	1202.7	1219.1	1249.3	1275.3	1286.3
30°	1161.6	1180.8	1212.3	1239.7	1249.3
32.5°	1121.9	1141.1	1173.9	1198.6	1208.2
35°	1076.7	1094.5	1130.1	1156.1	1165.7
37.5°	1028.7	1049.3	1083.5	1106.8	1115.0
40°	982.2	1000.0	1032.8	1056.1	1064.3
42.5°	930.1	949.3	982.2	1002.7	1009.6
45°	878.1	897.2	926.0	947.9	953.4
47.5°	824.6	842.4	871.2	889.0	894.5
50°	767.1	783.5	810.9	828.7	835.6
52.5°	712.3	727.4	750.7	765.7	769.8
55°	654.8	668.5	687.6	704.1	709.6
57.5°	593.1	608.2	626.0	639.7	643.8
60°	534.2	546.6	561.6	574.0	575.3
62.5°	476.7	482.2	495.9	506.8	508.2
65°	412.3	420.5	434.2	438.3	445.2
67.5°	353.4	358.9	369.9	375.3	380.8
70°	293.1	297.3	308.2	315.1	316.4
72.5°	241.1	242.5	250.7	256.2	257.5
75°	187.7	190.4	197.3	201.4	204.1
77.5°	142.5	145.2	150.7	153.4	153.4
80°	100.0	104.1	109.6	111.0	112.3
82.5°	64.4	69.9	74.0	75.3	72.6
85°	34.2	41.1	41.1	38.4	39.7
87.5°	12.3	15.1	16.4	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)