

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: P297211

Luminaire Tested: **D3X-WG-45L92765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297211
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-45L92765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

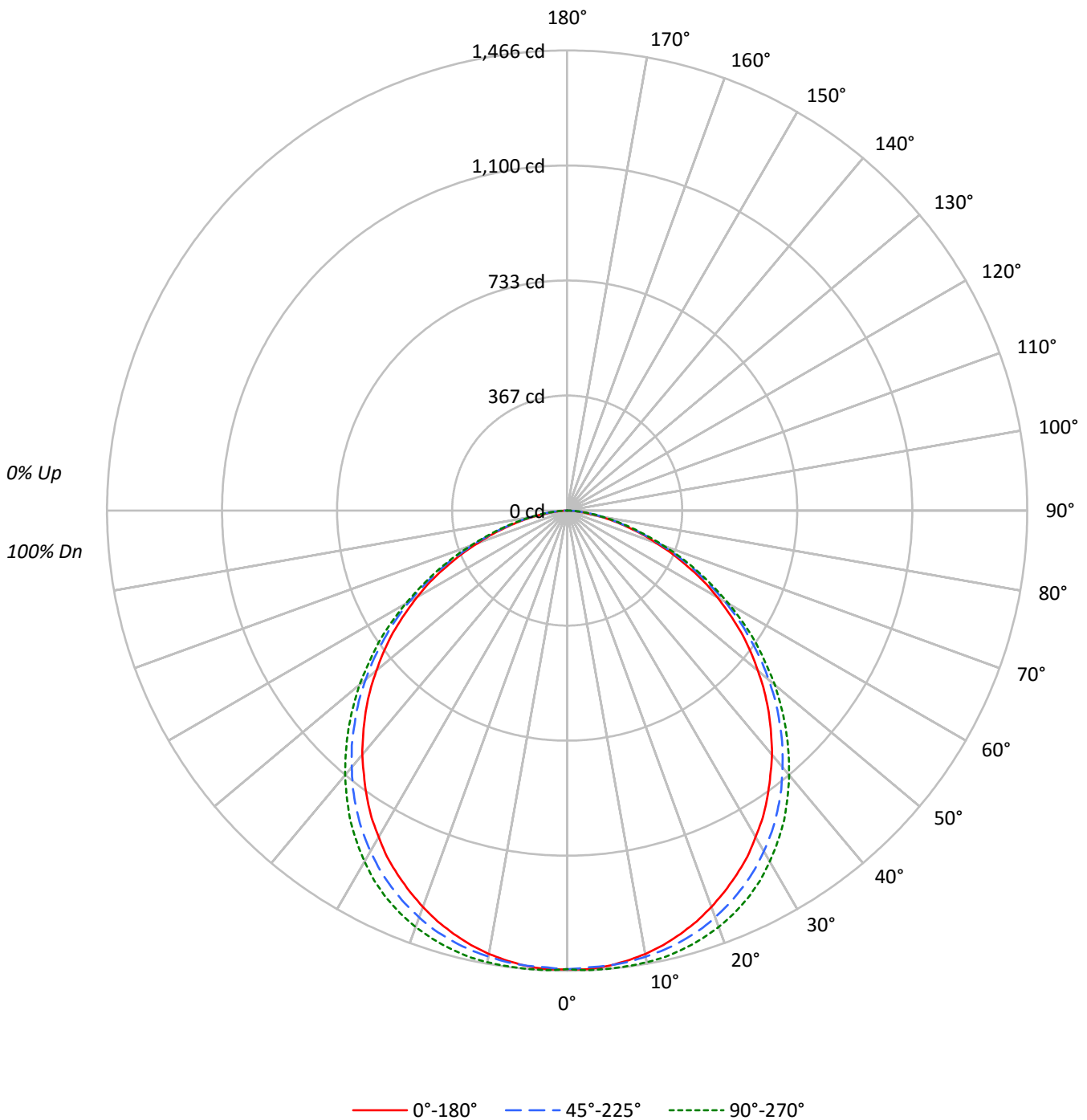
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1966	1966	1966
5°	1968	1966	1979
10°	1960	1971	1996
15°	1945	1976	2012
20°	1924	1975	2021
25°	1898	1966	2022
30°	1866	1947	2006
35°	1828	1919	1979
40°	1783	1875	1933
45°	1727	1821	1875
50°	1660	1755	1808
55°	1588	1667	1721
60°	1486	1562	1600
65°	1357	1429	1465
70°	1192	1253	1287
75°	1009	1060	1097
80°	801	878	900
85°	546	656	634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.5
10°-20°	400.9	10.1
20°-30°	609.2	15.4
30°-40°	726.9	18.4
40°-50°	734.2	18.6
50°-60°	632.5	16.0
60°-70°	440.9	11.2
70°-80°	218.5	5.5
80°-90°	51.0	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°	1148.9	29.1
0°-40°	1875.9	47.5
0°-60°	3242.6	82.0
0°-90°	3953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1457	1456	1456	1463	1466	138
15°	1396	1403	1419	1437	1444	394
25°	1279	1296	1324	1351	1362	589
35°	1113	1131	1168	1195	1205	696
45°	908	928	957	980	986	700
55°	677	691	711	728	734	603
65°	426	435	449	453	460	423
75°	194	197	204	208	211	209
85°	35	42	42	40	41	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1462.8	1459.9	1457.1	1462.8	1465.6
5°	1457.1	1455.7	1455.7	1462.8	1465.6
7.5°	1447.2	1447.2	1451.4	1461.3	1464.2
10°	1434.4	1437.3	1442.9	1457.1	1461.3
12.5°	1417.4	1423.1	1433.0	1450.0	1455.7
15°	1396.2	1403.3	1418.9	1437.3	1444.3
17.5°	1372.1	1382.0	1401.9	1423.1	1430.2
20°	1343.8	1356.6	1379.2	1403.3	1411.8
22.5°	1312.7	1328.2	1353.7	1379.2	1389.1
25°	1278.7	1295.7	1324.0	1350.9	1362.2
27.5°	1243.3	1260.3	1291.4	1318.3	1329.6
30°	1200.8	1220.6	1253.2	1281.5	1291.4
32.5°	1159.7	1179.6	1213.5	1239.0	1248.9
35°	1113.0	1131.4	1168.2	1195.1	1205.0
37.5°	1063.4	1084.7	1120.1	1144.2	1152.6
40°	1015.3	1033.7	1067.7	1091.8	1100.3
42.5°	961.5	981.3	1015.3	1036.5	1043.6
45°	907.7	927.5	957.2	979.9	985.6
47.5°	852.4	870.9	900.6	919.0	924.7
50°	793.0	810.0	838.3	856.7	863.8
52.5°	736.3	751.9	776.0	791.6	795.8
55°	676.9	691.0	710.8	727.8	733.5
57.5°	613.1	628.7	647.1	661.3	665.5
60°	552.3	565.0	580.6	593.3	594.7
62.5°	492.8	498.4	512.6	523.9	525.3
65°	426.2	434.7	448.9	453.1	460.2
67.5°	365.3	371.0	382.3	388.0	393.7
70°	303.0	307.3	318.6	325.7	327.1
72.5°	249.2	250.6	259.1	264.8	266.2
75°	194.0	196.8	203.9	208.2	211.0
77.5°	147.3	150.1	155.8	158.6	158.6
80°	103.4	107.6	113.3	114.7	116.1
82.5°	66.6	72.2	76.5	77.9	75.0
85°	35.4	42.5	42.5	39.6	41.1
87.5°	12.7	15.6	17.0	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)