

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: P297063

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297063
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-42L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.0 lumens
Efficiency: N/A
Efficacy: 137.8 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

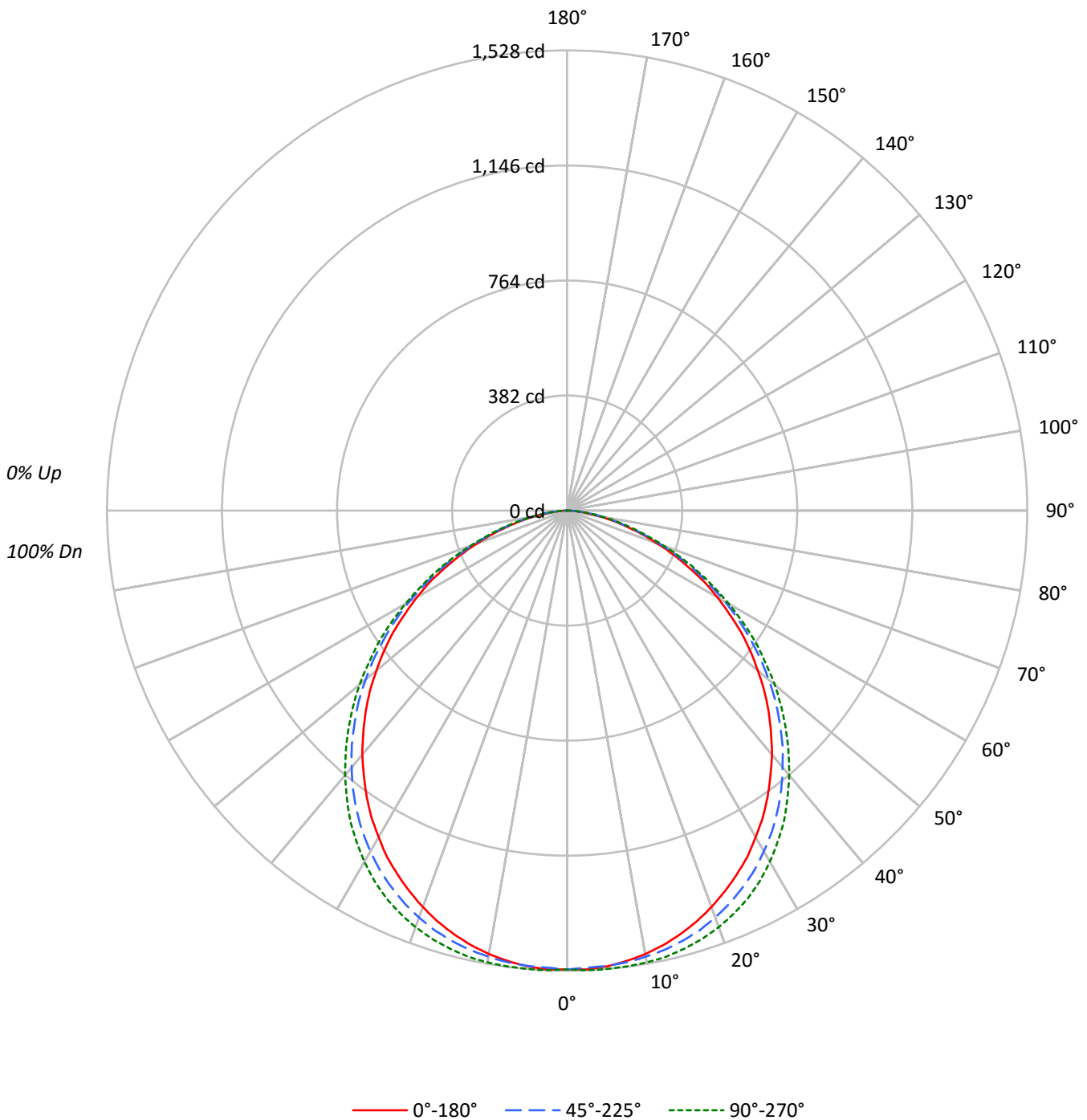
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2050	2050	2050
5°	2052	2050	2064
10°	2043	2055	2081
15°	2027	2060	2097
20°	2006	2059	2107
25°	1979	2049	2108
30°	1945	2030	2092
35°	1906	2000	2064
40°	1859	1955	2015
45°	1800	1899	1955
50°	1730	1829	1885
55°	1655	1738	1794
60°	1549	1629	1668
65°	1415	1490	1528
70°	1243	1306	1341
75°	1051	1105	1144
80°	835	915	938
85°	570	684	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.5
10°-20°	417.9	10.1
20°-30°	635.1	15.4
30°-40°	757.8	18.4
40°-50°	765.4	18.6
50°-60°	659.4	16.0
60°-70°	459.7	11.2
70°-80°	227.8	5.5
80°-90°	53.1	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°	1197.8	29.1
0°-40°	1955.6	47.5
0°-60°	3380.4	82.0
0°-90°	4121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1519	1518	1518	1525	1528	144
15°	1456	1463	1479	1498	1506	410
25°	1333	1351	1380	1408	1420	614
35°	1160	1180	1218	1246	1256	725
45°	946	967	998	1022	1027	729
55°	706	720	741	759	765	629
65°	444	453	468	472	480	441
75°	202	205	213	217	220	218
85°	37	44	44	41	43	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.4	1523.4	1523.4	1523.4	1523.4
2.5°	1524.9	1522.0	1519.0	1524.9	1527.9
5°	1519.0	1517.5	1517.5	1524.9	1527.9
7.5°	1508.7	1508.7	1513.1	1523.4	1526.4
10°	1495.4	1498.4	1504.3	1519.0	1523.4
12.5°	1477.7	1483.6	1493.9	1511.6	1517.5
15°	1455.5	1462.9	1479.2	1498.4	1505.7
17.5°	1430.4	1440.8	1461.4	1483.6	1491.0
20°	1400.9	1414.2	1437.8	1462.9	1471.8
22.5°	1368.4	1384.7	1411.3	1437.8	1448.2
25°	1333.0	1350.7	1380.3	1408.3	1420.1
27.5°	1296.1	1313.8	1346.3	1374.3	1386.2
30°	1251.8	1272.5	1306.4	1336.0	1346.3
32.5°	1209.0	1229.7	1265.1	1291.7	1302.0
35°	1160.3	1179.5	1217.9	1245.9	1256.3
37.5°	1108.6	1130.8	1167.7	1192.8	1201.6
40°	1058.4	1077.6	1113.1	1138.2	1147.0
42.5°	1002.3	1023.0	1058.4	1080.6	1088.0
45°	946.2	966.9	997.9	1021.5	1027.4
47.5°	888.7	907.9	938.9	958.1	964.0
50°	826.7	844.4	873.9	893.1	900.5
52.5°	767.6	783.9	809.0	825.2	829.6
55°	705.6	720.4	741.1	758.8	764.7
57.5°	639.2	655.4	674.6	689.4	693.8
60°	575.7	589.0	605.2	618.5	620.0
62.5°	513.7	519.6	534.4	546.2	547.7
65°	444.3	453.2	468.0	472.4	479.8
67.5°	380.9	386.8	398.6	404.5	410.4
70°	315.9	320.3	332.1	339.5	341.0
72.5°	259.8	261.3	270.1	276.1	277.5
75°	202.2	205.2	212.6	217.0	220.0
77.5°	153.5	156.5	162.4	165.3	165.3
80°	107.8	112.2	118.1	119.6	121.0
82.5°	69.4	75.3	79.7	81.2	78.2
85°	36.9	44.3	44.3	41.3	42.8
87.5°	13.3	16.2	17.7	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)