

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: P297056

Luminaire Tested: **D3X-WG-36L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297056
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-36L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3610.0 lumens
Efficiency: N/A
Efficacy: 137.3 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

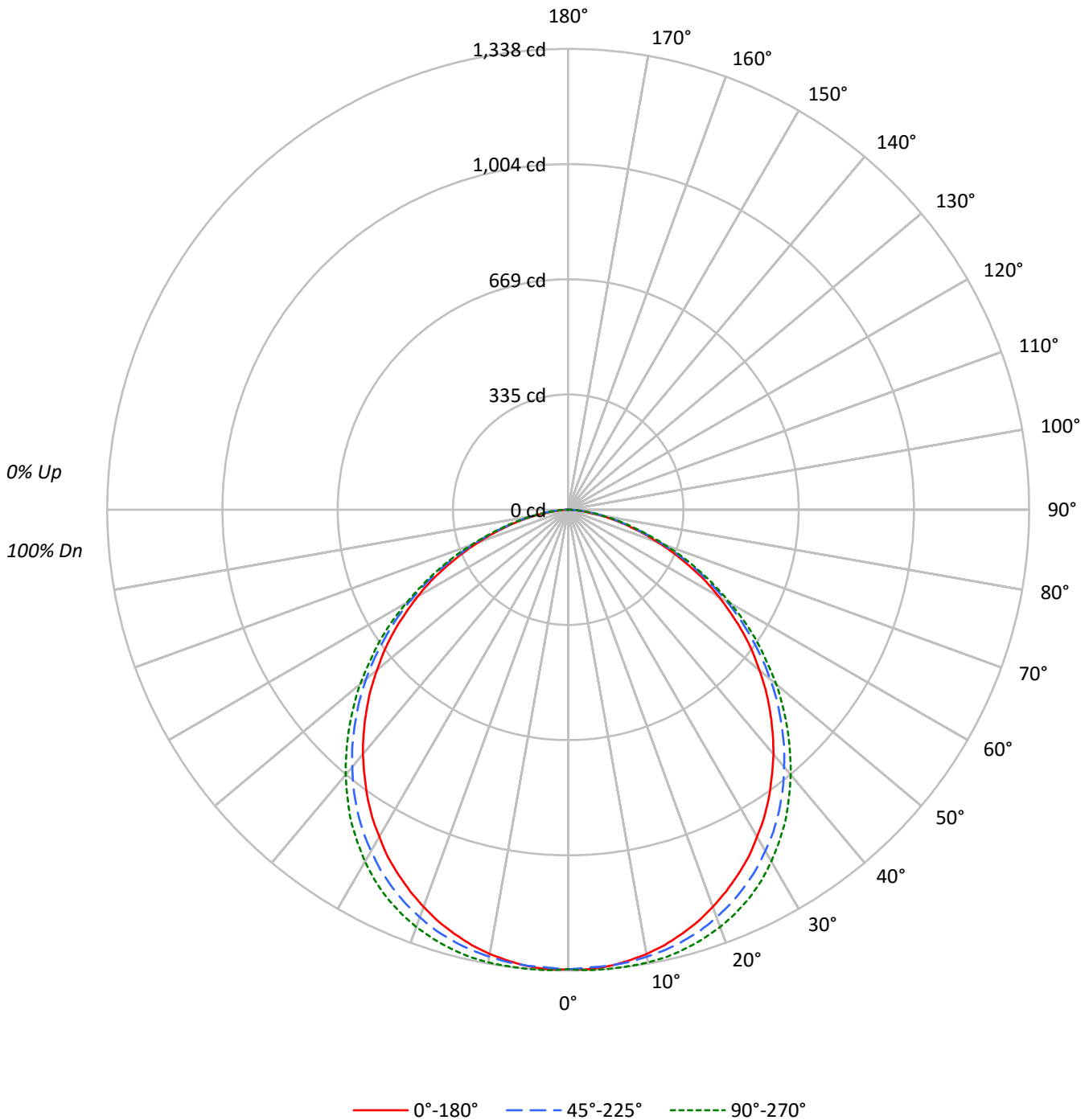
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1796	1796	1796
5°	1797	1796	1808
10°	1790	1800	1823
15°	1776	1805	1837
20°	1757	1803	1846
25°	1734	1795	1847
30°	1704	1778	1832
35°	1669	1752	1808
40°	1629	1713	1765
45°	1577	1663	1713
50°	1516	1603	1651
55°	1450	1523	1571
60°	1357	1427	1461
65°	1239	1305	1338
70°	1089	1145	1175
75°	921	968	1002
80°	731	802	821
85°	499	599	579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	3.5
10°-20°	366.1	10.1
20°-30°	556.3	15.4
30°-40°	663.9	18.4
40°-50°	670.5	18.6
50°-60°	577.7	16.0
60°-70°	402.7	11.2
70°-80°	199.5	5.5
80°-90°	46.5	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°	1049.2	29.1
0°-40°	1713.1	47.5
0°-60°	2961.2	82.0
0°-90°	3610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1331	1329	1329	1336	1338	126
15°	1275	1282	1296	1313	1319	360
25°	1168	1183	1209	1234	1244	538
35°	1016	1033	1067	1091	1100	635
45°	829	847	874	895	900	639
55°	618	631	649	665	670	551
65°	389	397	410	414	420	386
75°	177	180	186	190	193	191
85°	32	39	39	36	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.5	1334.5	1334.5	1334.5	1334.5
2.5°	1335.8	1333.2	1330.7	1335.8	1338.4
5°	1330.7	1329.4	1329.4	1335.8	1338.4
7.5°	1321.6	1321.6	1325.5	1334.5	1337.1
10°	1310.0	1312.6	1317.7	1330.7	1334.5
12.5°	1294.5	1299.6	1308.7	1324.2	1329.4
15°	1275.1	1281.5	1295.7	1312.6	1319.0
17.5°	1253.1	1262.1	1280.2	1299.6	1306.1
20°	1227.2	1238.8	1259.5	1281.5	1289.3
22.5°	1198.8	1213.0	1236.3	1259.5	1268.6
25°	1167.7	1183.2	1209.1	1233.7	1244.0
27.5°	1135.4	1150.9	1179.4	1203.9	1214.3
30°	1096.6	1114.7	1144.4	1170.3	1179.4
32.5°	1059.1	1077.2	1108.2	1131.5	1140.6
35°	1016.4	1033.2	1066.9	1091.4	1100.5
37.5°	971.2	990.6	1022.9	1044.9	1052.6
40°	927.2	944.0	975.0	997.0	1004.8
42.5°	878.1	896.2	927.2	946.6	953.1
45°	828.9	847.0	874.2	894.9	900.0
47.5°	778.5	795.3	822.4	839.3	844.4
50°	724.2	739.7	765.6	782.4	788.8
52.5°	672.4	686.7	708.7	722.9	726.8
55°	618.1	631.1	649.2	664.7	669.9
57.5°	559.9	574.2	591.0	603.9	607.8
60°	504.3	516.0	530.2	541.8	543.1
62.5°	450.0	455.2	468.1	478.5	479.8
65°	389.2	397.0	409.9	413.8	420.3
67.5°	333.6	338.8	349.2	354.3	359.5
70°	276.7	280.6	291.0	297.4	298.7
72.5°	227.6	228.9	236.6	241.8	243.1
75°	177.2	179.7	186.2	190.1	192.7
77.5°	134.5	137.1	142.2	144.8	144.8
80°	94.4	98.3	103.5	104.7	106.0
82.5°	60.8	66.0	69.8	71.1	68.5
85°	32.3	38.8	38.8	36.2	37.5
87.5°	11.6	14.2	15.5	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)