

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: P298214

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-44L82765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4018.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

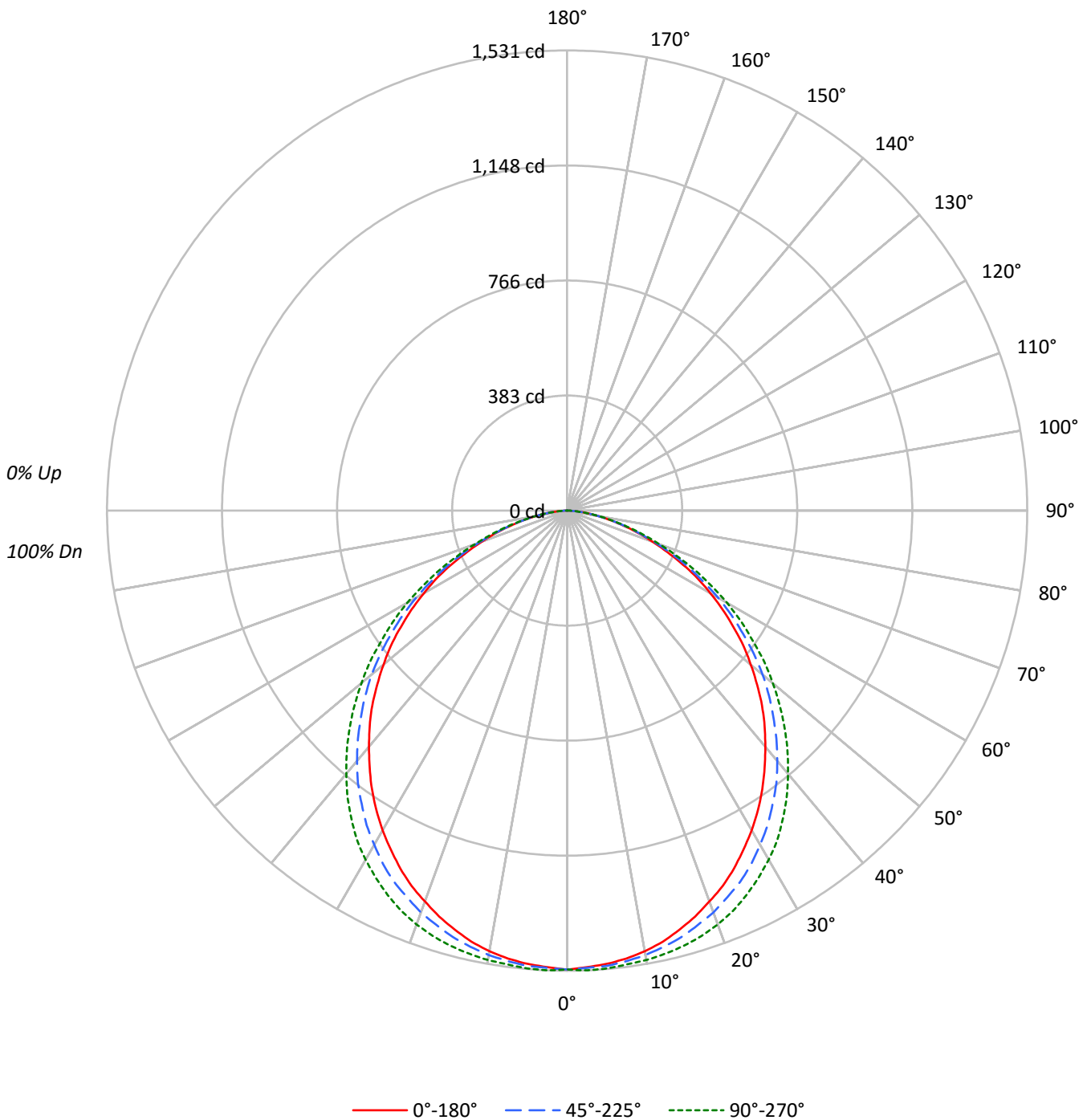
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4109	4109	4109
5°	4090	4107	4130
10°	4067	4102	4149
15°	4022	4094	4177
20°	3963	4073	4196
25°	3901	4046	4192
30°	3817	3989	4168
35°	3720	3916	4112
40°	3603	3821	4016
45°	3490	3693	3895
50°	3339	3553	3741
55°	3172	3352	3532
60°	2961	3122	3306
65°	2702	2825	2988
70°	2366	2467	2567
75°	2018	2062	2151
80°	1619	1652	1686
85°	1186	1121	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.6
10°-20°	414.8	10.3
20°-30°	627.1	15.6
30°-40°	744.9	18.5
40°-50°	747.8	18.6
50°-60°	638.7	15.9
60°-70°	440.1	11.0
70°-80°	213.4	5.3
80°-90°	46.7	1.2
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°	1186.5	29.5
0°-40°	1931.3	48.1
0°-60°	3317.9	82.6
0°-90°	4018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1527	1527	1527	1527	1527	
5°	1514	1514	1520	1525	1529	144
15°	1444	1450	1469	1488	1499	407
25°	1314	1324	1363	1399	1412	605
35°	1132	1150	1192	1237	1252	707
45°	917	930	970	1011	1024	706
55°	676	687	714	744	753	604
65°	424	424	444	463	469	420
75°	194	190	198	203	207	208
85°	38	38	36	34	34	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526.9	1526.9	1526.9	1526.9	1526.9
2.5°	1520.5	1520.5	1522.7	1529.1	1531.2
5°	1514.1	1514.1	1520.5	1524.8	1529.1
7.5°	1503.5	1505.6	1512.0	1520.5	1522.7
10°	1488.5	1490.7	1501.3	1512.0	1518.4
12.5°	1469.4	1473.6	1486.4	1503.5	1509.9
15°	1443.8	1450.2	1469.4	1488.5	1499.2
17.5°	1416.0	1424.6	1445.9	1473.6	1484.3
20°	1384.0	1394.7	1422.4	1452.3	1465.1
22.5°	1352.1	1360.6	1392.6	1426.7	1441.6
25°	1313.7	1324.3	1362.7	1399.0	1411.8
27.5°	1271.0	1285.9	1326.5	1364.9	1377.7
30°	1228.4	1241.2	1283.8	1326.5	1341.4
32.5°	1181.5	1194.2	1241.2	1283.8	1300.9
35°	1132.4	1149.5	1192.1	1236.9	1251.8
37.5°	1079.1	1098.3	1143.1	1181.5	1200.6
40°	1025.8	1042.8	1087.6	1128.1	1143.1
42.5°	972.5	987.4	1030.0	1072.7	1085.5
45°	917.0	929.8	970.3	1010.8	1023.6
47.5°	857.3	872.2	910.6	944.7	959.7
50°	797.6	812.5	848.8	880.8	893.6
52.5°	740.0	748.5	782.7	812.5	827.4
55°	676.0	686.7	714.4	744.3	752.8
57.5°	614.2	620.6	648.3	673.9	686.7
60°	550.2	554.5	580.1	599.3	614.2
62.5°	490.5	490.5	509.7	531.0	539.5
65°	424.4	424.4	443.6	462.8	469.2
67.5°	360.4	364.7	377.5	392.4	396.7
70°	300.7	300.7	313.5	324.2	326.3
72.5°	247.4	245.2	251.6	260.2	264.4
75°	194.1	189.8	198.3	202.6	206.9
77.5°	147.1	145.0	149.3	153.5	153.5
80°	104.5	102.4	106.6	106.6	108.8
82.5°	68.2	70.4	70.4	68.2	66.1
85°	38.4	38.4	36.3	34.1	34.1
87.5°	12.8	12.8	12.8	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)