

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: P298217

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298217
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-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4236.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

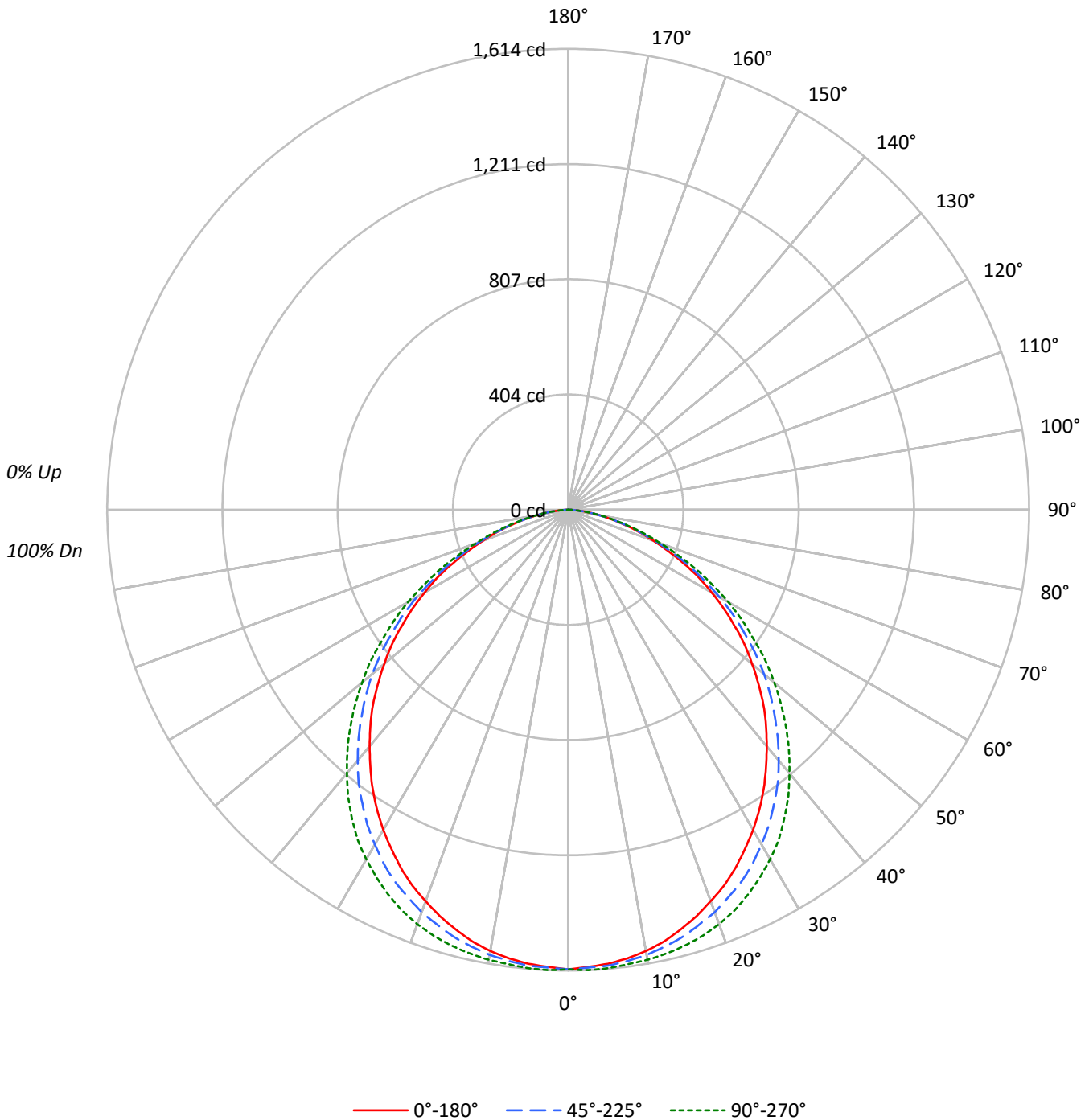
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4332	4332	4332
5°	4312	4330	4354
10°	4288	4325	4374
15°	4240	4316	4403
20°	4178	4294	4423
25°	4112	4266	4419
30°	4024	4206	4394
35°	3922	4129	4335
40°	3799	4028	4233
45°	3679	3893	4107
50°	3520	3746	3944
55°	3344	3534	3723
60°	3122	3291	3485
65°	2849	2977	3149
70°	2494	2600	2707
75°	2127	2174	2268
80°	1708	1742	1777
85°	1250	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.6
10°-20°	437.3	10.3
20°-30°	661.1	15.6
30°-40°	785.3	18.5
40°-50°	788.4	18.6
50°-60°	673.4	15.9
60°-70°	463.9	11.0
70°-80°	225.0	5.3
80°-90°	49.2	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°	1250.8	29.5
0°-40°	2036.1	48.1
0°-60°	3497.9	82.6
0°-90°	4236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4236.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1596	1596	1603	1608	1612	152
15°	1522	1529	1549	1569	1580	429
25°	1385	1396	1437	1475	1488	637
35°	1194	1212	1257	1304	1320	746
45°	967	980	1023	1066	1079	744
55°	713	724	753	785	794	637
65°	447	447	468	488	495	443
75°	205	200	209	214	218	220
85°	40	40	38	36	36	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1609.8	1609.8	1609.8	1609.8	1609.8
2.5°	1603.0	1603.0	1605.3	1612.0	1614.3
5°	1596.3	1596.3	1603.0	1607.5	1612.0
7.5°	1585.0	1587.3	1594.0	1603.0	1605.3
10°	1569.3	1571.6	1582.8	1594.0	1600.8
12.5°	1549.1	1553.6	1567.1	1585.0	1591.8
15°	1522.1	1528.8	1549.1	1569.3	1580.5
17.5°	1492.9	1501.9	1524.3	1553.6	1564.8
20°	1459.1	1470.4	1499.6	1531.1	1544.6
22.5°	1425.4	1434.4	1468.1	1504.1	1519.8
25°	1384.9	1396.2	1436.7	1474.9	1488.4
27.5°	1340.0	1355.7	1398.4	1438.9	1452.4
30°	1295.0	1308.5	1353.5	1398.4	1414.2
32.5°	1245.6	1259.0	1308.5	1353.5	1371.5
35°	1193.8	1211.8	1256.8	1304.0	1319.7
37.5°	1137.6	1157.9	1205.1	1245.6	1265.8
40°	1081.4	1099.4	1146.6	1189.3	1205.1
42.5°	1025.2	1041.0	1085.9	1130.9	1144.4
45°	966.8	980.3	1023.0	1065.7	1079.2
47.5°	903.8	919.6	960.0	996.0	1011.7
50°	840.9	856.6	894.8	928.5	942.0
52.5°	780.2	789.2	825.1	856.6	872.3
55°	712.7	724.0	753.2	784.7	793.6
57.5°	647.5	654.3	683.5	710.5	724.0
60°	580.1	584.6	611.5	631.8	647.5
62.5°	517.1	517.1	537.3	559.8	568.8
65°	447.4	447.4	467.6	487.9	494.6
67.5°	380.0	384.5	397.9	413.7	418.2
70°	317.0	317.0	330.5	341.7	344.0
72.5°	260.8	258.6	265.3	274.3	278.8
75°	204.6	200.1	209.1	213.6	218.1
77.5°	155.1	152.9	157.4	161.9	161.9
80°	110.2	107.9	112.4	112.4	114.7
82.5°	71.9	74.2	74.2	71.9	69.7
85°	40.5	40.5	38.2	36.0	36.0
87.5°	13.5	13.5	13.5	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)