

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: P297346

Luminaire Tested: **D3X-WO-45L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-45L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4172.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

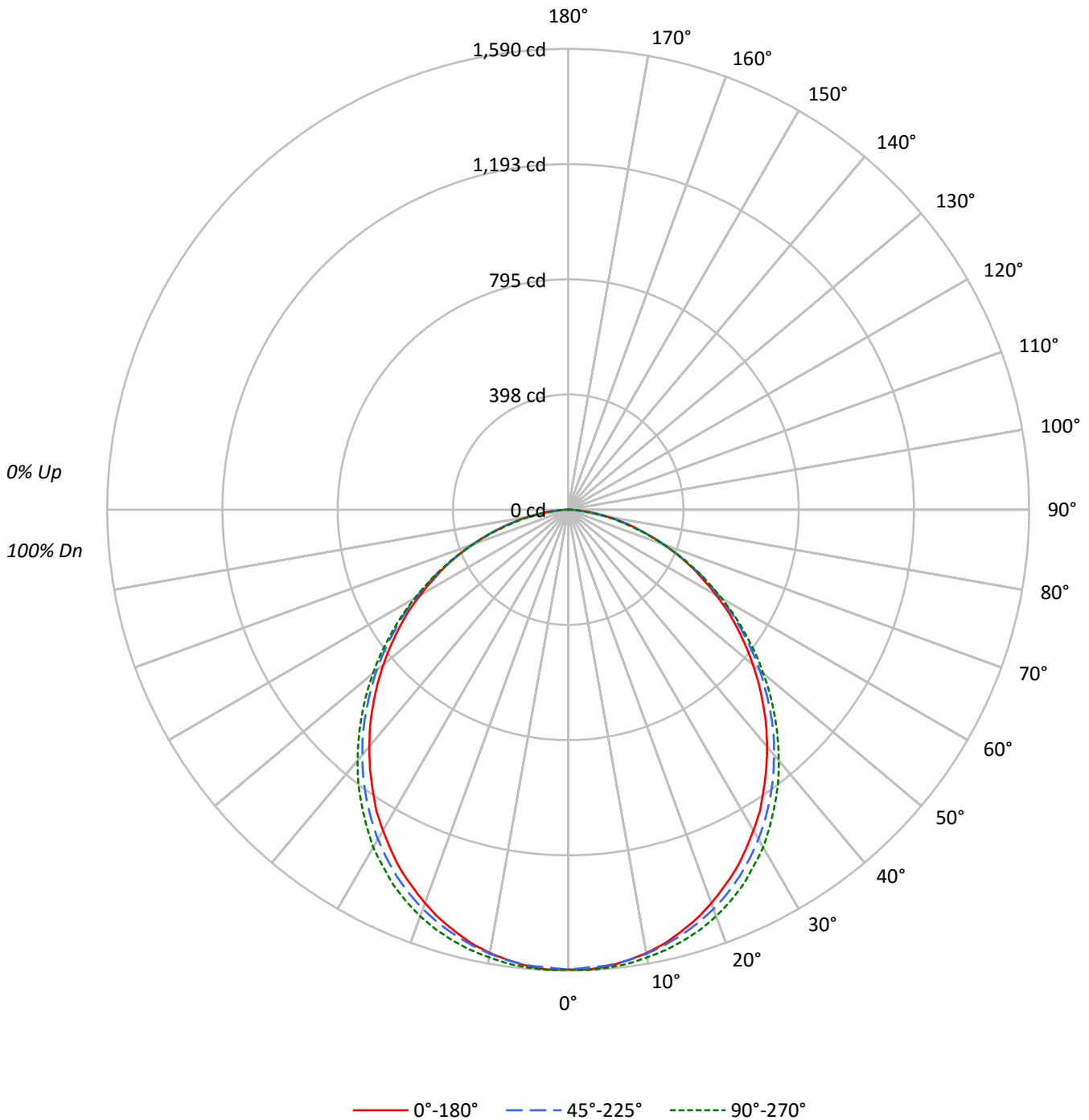
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2135	2135	2135
5°	2135	2132	2143
10°	2122	2126	2143
15°	2099	2114	2144
20°	2069	2099	2137
25°	2032	2074	2120
30°	1985	2039	2090
35°	1932	1995	2041
40°	1874	1940	1985
45°	1811	1877	1917
50°	1742	1806	1839
55°	1668	1721	1747
60°	1585	1626	1645
65°	1494	1517	1526
70°	1371	1388	1371
75°	1235	1227	1191
80°	1045	1034	1002
85°	781	760	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.6
10°-20°	429.1	10.3
20°-30°	643.4	15.4
30°-40°	757.8	18.2
40°-50°	757.9	18.2
50°-60°	653.9	15.7
60°-70°	470.5	11.3
70°-80°	249.6	6.0
80°-90°	59.5	1.4
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°	1222.8	29.3
0°-40°	1980.6	47.5
0°-60°	3392.4	81.3
0°-90°	4172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1581	1580	1578	1584	1587	150
15°	1507	1511	1518	1533	1539	425
25°	1369	1377	1397	1421	1428	630
35°	1176	1190	1214	1235	1242	736
45°	952	964	987	1004	1008	734
55°	711	718	734	746	745	636
65°	469	471	476	479	479	464
75°	238	235	236	230	229	253
85°	51	51	49	45	44	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.7	1586.7	1586.7	1586.7	1586.7
2.5°	1588.1	1585.3	1581.1	1586.7	1589.5
5°	1581.1	1579.7	1578.3	1583.9	1586.7
7.5°	1568.4	1569.8	1568.4	1576.9	1579.7
10°	1553.0	1554.4	1555.8	1565.6	1568.4
12.5°	1533.3	1534.7	1538.9	1551.6	1555.8
15°	1506.6	1510.8	1517.8	1533.3	1538.9
17.5°	1478.5	1484.1	1493.9	1512.2	1517.8
20°	1444.7	1451.8	1465.8	1485.5	1492.5
22.5°	1406.8	1413.8	1433.5	1454.6	1461.6
25°	1368.9	1377.3	1397.0	1420.9	1427.9
27.5°	1323.9	1335.1	1356.2	1380.1	1385.7
30°	1277.5	1287.3	1312.6	1335.1	1345.0
32.5°	1231.1	1241.0	1264.9	1287.3	1294.4
35°	1176.3	1190.4	1214.3	1235.3	1242.4
37.5°	1122.9	1135.6	1160.9	1181.9	1189.0
40°	1066.7	1077.9	1104.6	1124.3	1129.9
42.5°	1010.5	1021.7	1048.4	1063.9	1069.5
45°	951.5	964.1	986.6	1003.5	1007.7
47.5°	892.4	902.3	923.3	938.8	944.4
50°	832.0	841.8	862.9	875.6	878.4
52.5°	771.6	778.6	798.3	809.5	813.7
55°	711.1	718.2	733.6	746.3	744.9
57.5°	653.5	656.3	671.8	680.2	680.2
60°	588.9	591.7	604.3	609.9	611.3
62.5°	528.4	532.6	542.5	543.9	543.9
65°	469.4	470.8	476.4	479.2	479.2
67.5°	410.4	409.0	414.6	414.6	413.2
70°	348.5	351.3	352.8	349.9	348.5
72.5°	292.3	290.9	290.9	289.5	289.5
75°	237.5	234.7	236.1	230.5	229.1
77.5°	186.9	182.7	181.3	178.5	175.7
80°	134.9	134.9	133.5	130.7	129.3
82.5°	89.9	89.9	88.5	85.7	82.9
85°	50.6	50.6	49.2	45.0	43.6
87.5°	16.9	16.9	16.9	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)