

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: P297431

Luminaire Tested: **D3X-WO-50L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297431
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-50L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582.0 lumens
Efficiency: N/A
Efficacy: 127.6 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

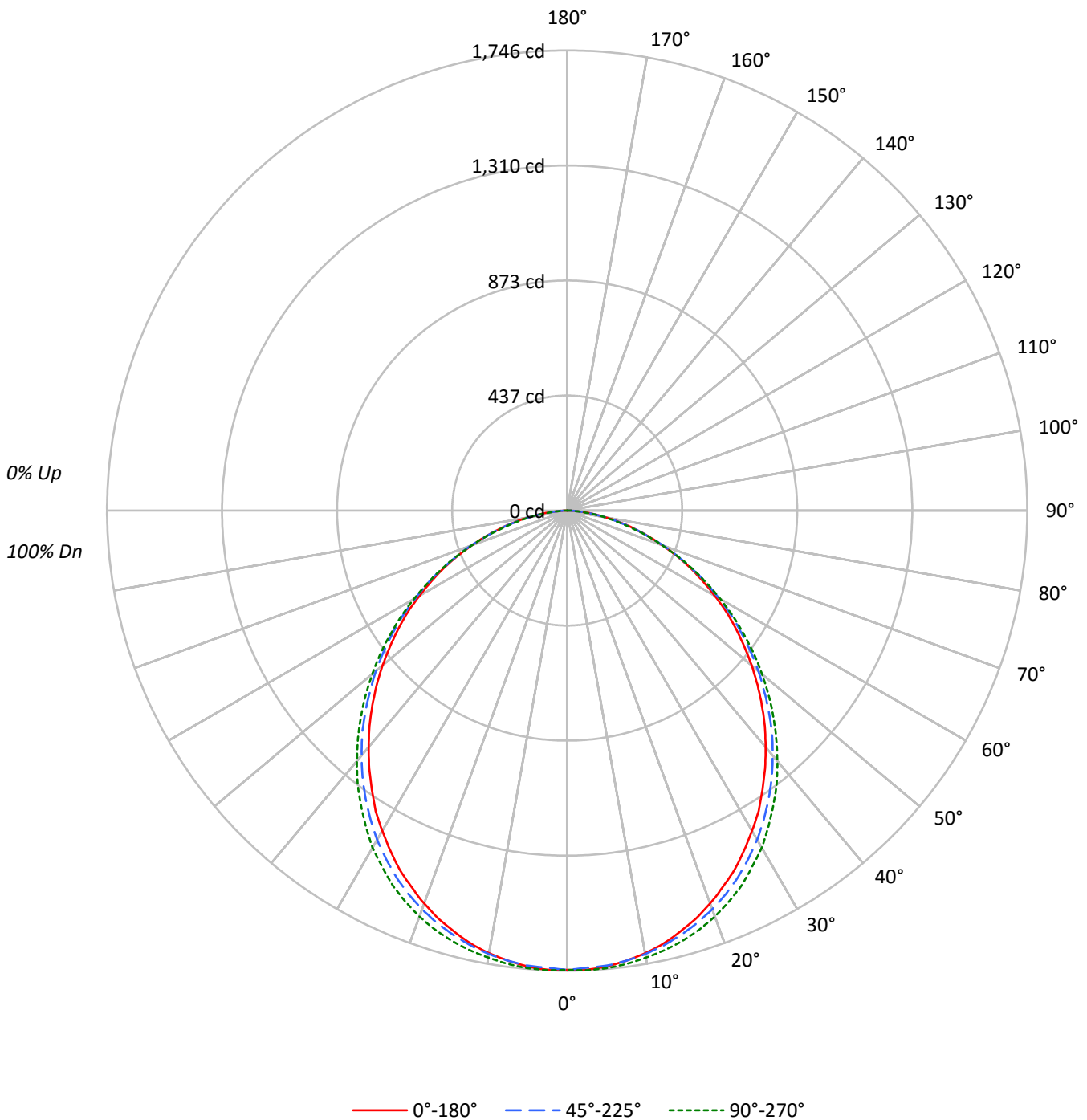
Input Watts (W): 35.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2345	2345	2345
5°	2345	2341	2354
10°	2330	2335	2353
15°	2305	2322	2354
20°	2272	2305	2347
25°	2232	2278	2328
30°	2180	2240	2295
35°	2122	2190	2241
40°	2058	2131	2180
45°	1988	2062	2106
50°	1913	1984	2019
55°	1832	1890	1919
60°	1740	1786	1807
65°	1641	1666	1676
70°	1506	1524	1506
75°	1356	1348	1308
80°	1148	1136	1100
85°	858	834	738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.6
10°-20°	471.3	10.3
20°-30°	706.7	15.4
30°-40°	832.2	18.2
40°-50°	832.4	18.2
50°-60°	718.2	15.7
60°-70°	516.8	11.3
70°-80°	274.1	6.0
80°-90°	65.4	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°	1343.0	29.3
0°-40°	2175.2	47.5
0°-60°	3725.7	81.3
0°-90°	4582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1736	1735	1733	1740	1743	165
15°	1655	1659	1667	1684	1690	467
25°	1503	1513	1534	1560	1568	692
35°	1292	1307	1334	1357	1364	808
45°	1045	1059	1084	1102	1107	806
55°	781	789	806	820	818	699
65°	516	517	523	526	526	510
75°	261	258	259	253	252	278
85°	56	56	54	49	48	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.6	1742.6	1742.6	1742.6	1742.6
2.5°	1744.2	1741.1	1736.4	1742.6	1745.7
5°	1736.4	1734.9	1733.4	1739.5	1742.6
7.5°	1722.6	1724.1	1722.6	1731.8	1734.9
10°	1705.6	1707.1	1708.7	1719.5	1722.6
12.5°	1684.0	1685.5	1690.1	1704.0	1708.7
15°	1654.6	1659.3	1667.0	1684.0	1690.1
17.5°	1623.8	1629.9	1640.7	1660.8	1667.0
20°	1586.7	1594.4	1609.9	1631.5	1639.2
22.5°	1545.1	1552.8	1574.4	1597.5	1605.2
25°	1503.4	1512.6	1534.2	1560.5	1568.2
27.5°	1454.0	1466.3	1489.5	1515.7	1521.9
30°	1403.0	1413.9	1441.6	1466.3	1477.1
32.5°	1352.1	1362.9	1389.2	1413.9	1421.6
35°	1291.9	1307.4	1333.6	1356.7	1364.5
37.5°	1233.3	1247.2	1274.9	1298.1	1305.8
40°	1171.5	1183.9	1213.2	1234.8	1241.0
42.5°	1109.8	1122.1	1151.5	1168.4	1174.6
45°	1045.0	1058.8	1083.5	1102.1	1106.7
47.5°	980.1	990.9	1014.1	1031.1	1037.2
50°	913.8	924.6	947.7	961.6	964.7
52.5°	847.4	855.1	876.7	889.1	893.7
55°	781.0	788.7	805.7	819.6	818.1
57.5°	717.7	720.8	737.8	747.1	747.1
60°	646.7	649.8	663.7	669.9	671.4
62.5°	580.4	585.0	595.8	597.3	597.3
65°	515.5	517.1	523.2	526.3	526.3
67.5°	450.7	449.2	455.3	455.3	453.8
70°	382.8	385.9	387.4	384.3	382.8
72.5°	321.0	319.5	319.5	318.0	318.0
75°	260.9	257.8	259.3	253.1	251.6
77.5°	205.3	200.7	199.1	196.0	192.9
80°	148.2	148.2	146.6	143.5	142.0
82.5°	98.8	98.8	97.2	94.2	91.1
85°	55.6	55.6	54.0	49.4	47.8
87.5°	18.5	18.5	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)