

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: P297430

Luminaire Tested: **D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297430
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-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4242.0 lumens
Efficiency: N/A
Efficacy: 119.2 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

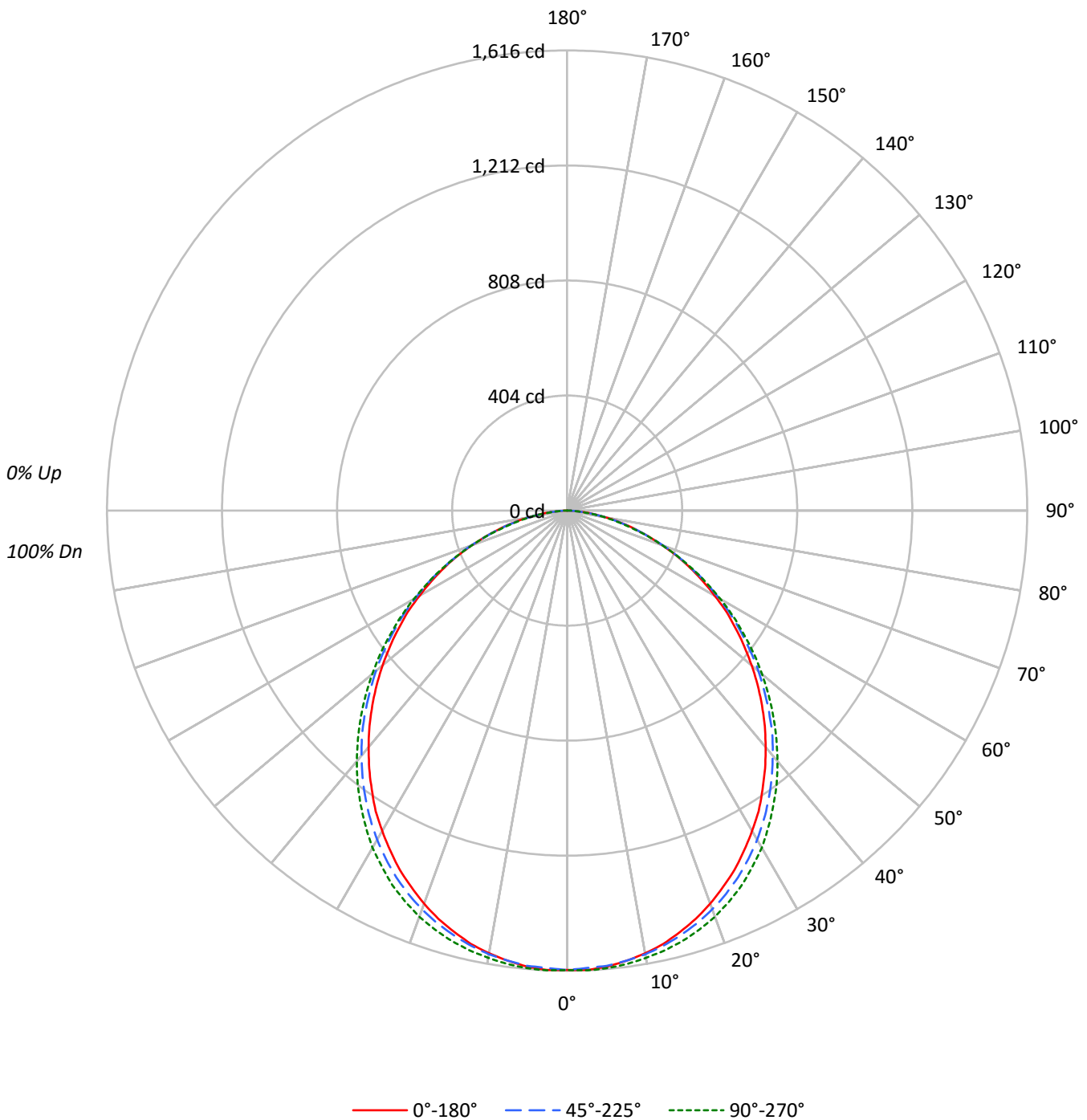
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2171	2171	2171
5°	2171	2167	2179
10°	2157	2161	2179
15°	2134	2150	2180
20°	2103	2134	2173
25°	2066	2109	2155
30°	2018	2074	2125
35°	1965	2028	2075
40°	1905	1973	2018
45°	1841	1909	1950
50°	1771	1837	1869
55°	1696	1750	1777
60°	1611	1654	1673
65°	1520	1542	1551
70°	1394	1411	1394
75°	1255	1248	1211
80°	1063	1052	1019
85°	794	772	684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.6
10°-20°	436.3	10.3
20°-30°	654.2	15.4
30°-40°	770.5	18.2
40°-50°	770.6	18.2
50°-60°	664.9	15.7
60°-70°	478.4	11.3
70°-80°	253.8	6.0
80°-90°	60.5	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°	1243.3	29.3
0°-40°	2013.8	47.5
0°-60°	3449.3	81.3
0°-90°	4242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4242.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1608	1606	1605	1610	1613	152
15°	1532	1536	1543	1559	1565	432
25°	1392	1400	1420	1445	1452	640
35°	1196	1210	1235	1256	1263	748
45°	967	980	1003	1020	1025	746
55°	723	730	746	759	757	647
65°	477	479	484	487	487	472
75°	242	239	240	234	233	257
85°	51	51	50	46	44	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.3	1613.3	1613.3	1613.3	1613.3
2.5°	1614.7	1611.9	1607.6	1613.3	1616.2
5°	1607.6	1606.2	1604.7	1610.5	1613.3
7.5°	1594.7	1596.2	1594.7	1603.3	1606.2
10°	1579.0	1580.4	1581.9	1591.9	1594.7
12.5°	1559.0	1560.4	1564.7	1577.6	1581.9
15°	1531.9	1536.1	1543.3	1559.0	1564.7
17.5°	1503.3	1509.0	1519.0	1537.6	1543.3
20°	1469.0	1476.1	1490.4	1510.4	1517.6
22.5°	1430.4	1437.5	1457.6	1479.0	1486.1
25°	1391.8	1400.4	1420.4	1444.7	1451.8
27.5°	1346.1	1357.5	1379.0	1403.3	1409.0
30°	1298.9	1308.9	1334.7	1357.5	1367.5
32.5°	1251.8	1261.8	1286.1	1308.9	1316.1
35°	1196.1	1210.3	1234.6	1256.1	1263.2
37.5°	1141.7	1154.6	1180.3	1201.8	1208.9
40°	1084.6	1096.0	1123.2	1143.2	1148.9
42.5°	1027.4	1038.9	1066.0	1081.7	1087.4
45°	967.4	980.3	1003.1	1020.3	1024.6
47.5°	907.4	917.4	938.8	954.6	960.3
50°	846.0	856.0	877.4	890.3	893.1
52.5°	784.5	791.7	811.7	823.1	827.4
55°	723.1	730.2	745.9	758.8	757.4
57.5°	664.5	667.3	683.0	691.6	691.6
60°	598.7	601.6	614.5	620.2	621.6
62.5°	537.3	541.6	551.6	553.0	553.0
65°	477.3	478.7	484.4	487.3	487.3
67.5°	417.3	415.8	421.5	421.5	420.1
70°	354.4	357.2	358.7	355.8	354.4
72.5°	297.2	295.8	295.8	294.4	294.4
75°	241.5	238.6	240.1	234.4	232.9
77.5°	190.1	185.8	184.3	181.5	178.6
80°	137.2	137.2	135.8	132.9	131.5
82.5°	91.5	91.5	90.0	87.2	84.3
85°	51.4	51.4	50.0	45.7	44.3
87.5°	17.1	17.1	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)