

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: P297286

Luminaire Tested: **D3X-WO-45L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297286
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-45L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4774.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

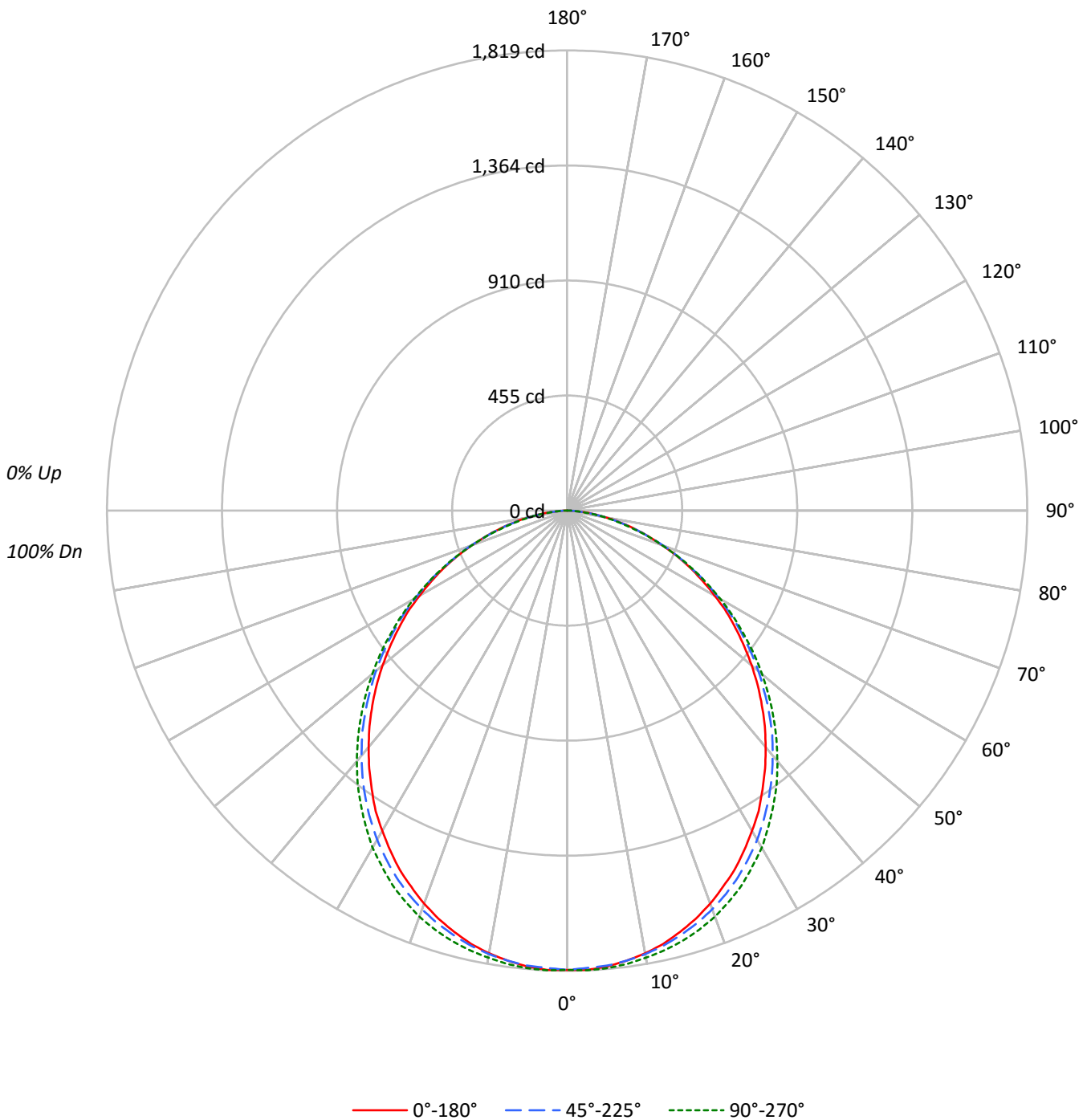
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2443	2443	2443
5°	2444	2439	2452
10°	2428	2432	2452
15°	2401	2419	2453
20°	2367	2402	2445
25°	2325	2373	2426
30°	2271	2334	2391
35°	2211	2282	2335
40°	2144	2220	2271
45°	2072	2148	2194
50°	1993	2067	2104
55°	1909	1969	1999
60°	1813	1861	1883
65°	1710	1736	1746
70°	1569	1588	1569
75°	1413	1405	1363
80°	1196	1184	1147
85°	894	869	770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.6
10°-20°	491.1	10.3
20°-30°	736.3	15.4
30°-40°	867.1	18.2
40°-50°	867.2	18.2
50°-60°	748.3	15.7
60°-70°	538.4	11.3
70°-80°	285.6	6.0
80°-90°	68.1	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°	1399.3	29.3
0°-40°	2266.3	47.5
0°-60°	3881.8	81.3
0°-90°	4774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1809	1808	1806	1812	1816	172
15°	1724	1729	1737	1754	1761	486
25°	1566	1576	1598	1626	1634	720
35°	1346	1362	1390	1414	1422	842
45°	1089	1103	1129	1148	1153	840
55°	814	822	840	854	852	728
65°	537	539	545	548	548	531
75°	272	269	270	264	262	289
85°	58	58	56	52	50	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.6	1815.6	1815.6	1815.6	1815.6
2.5°	1817.2	1814.0	1809.2	1815.6	1818.9
5°	1809.2	1807.6	1806.0	1812.4	1815.6
7.5°	1794.7	1796.3	1794.7	1804.4	1807.6
10°	1777.0	1778.7	1780.3	1791.5	1794.7
12.5°	1754.5	1756.1	1761.0	1775.4	1780.3
15°	1724.0	1728.8	1736.8	1754.5	1761.0
17.5°	1691.8	1698.2	1709.5	1730.4	1736.8
20°	1653.2	1661.3	1677.3	1699.9	1707.9
22.5°	1609.8	1617.8	1640.3	1664.5	1672.5
25°	1566.4	1576.0	1598.5	1625.9	1633.9
27.5°	1514.9	1527.8	1551.9	1579.2	1585.7
30°	1461.8	1473.1	1502.0	1527.8	1539.0
32.5°	1408.8	1420.0	1447.4	1473.1	1481.1
35°	1346.1	1362.1	1389.5	1413.6	1421.6
37.5°	1284.9	1299.4	1328.4	1352.5	1360.5
40°	1220.6	1233.5	1264.0	1286.5	1293.0
42.5°	1156.3	1169.2	1199.7	1217.4	1223.8
45°	1088.7	1103.2	1128.9	1148.2	1153.1
47.5°	1021.2	1032.5	1056.6	1074.3	1080.7
50°	952.0	963.3	987.4	1001.9	1005.1
52.5°	882.9	890.9	913.4	926.3	931.1
55°	813.7	821.8	839.5	853.9	852.3
57.5°	747.8	751.0	768.7	778.4	778.4
60°	673.8	677.0	691.5	698.0	699.6
62.5°	604.7	609.5	620.8	622.4	622.4
65°	537.1	538.7	545.2	548.4	548.4
67.5°	469.6	468.0	474.4	474.4	472.8
70°	398.8	402.0	403.7	400.4	398.8
72.5°	334.5	332.9	332.9	331.3	331.3
75°	271.8	268.6	270.2	263.7	262.1
77.5°	213.9	209.1	207.5	204.2	201.0
80°	154.4	154.4	152.8	149.6	148.0
82.5°	102.9	102.9	101.3	98.1	94.9
85°	57.9	57.9	56.3	51.5	49.9
87.5°	19.3	19.3	19.3	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)