

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: P297424

Luminaire Tested: **D3X-WO-45L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297424
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-45L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3538.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

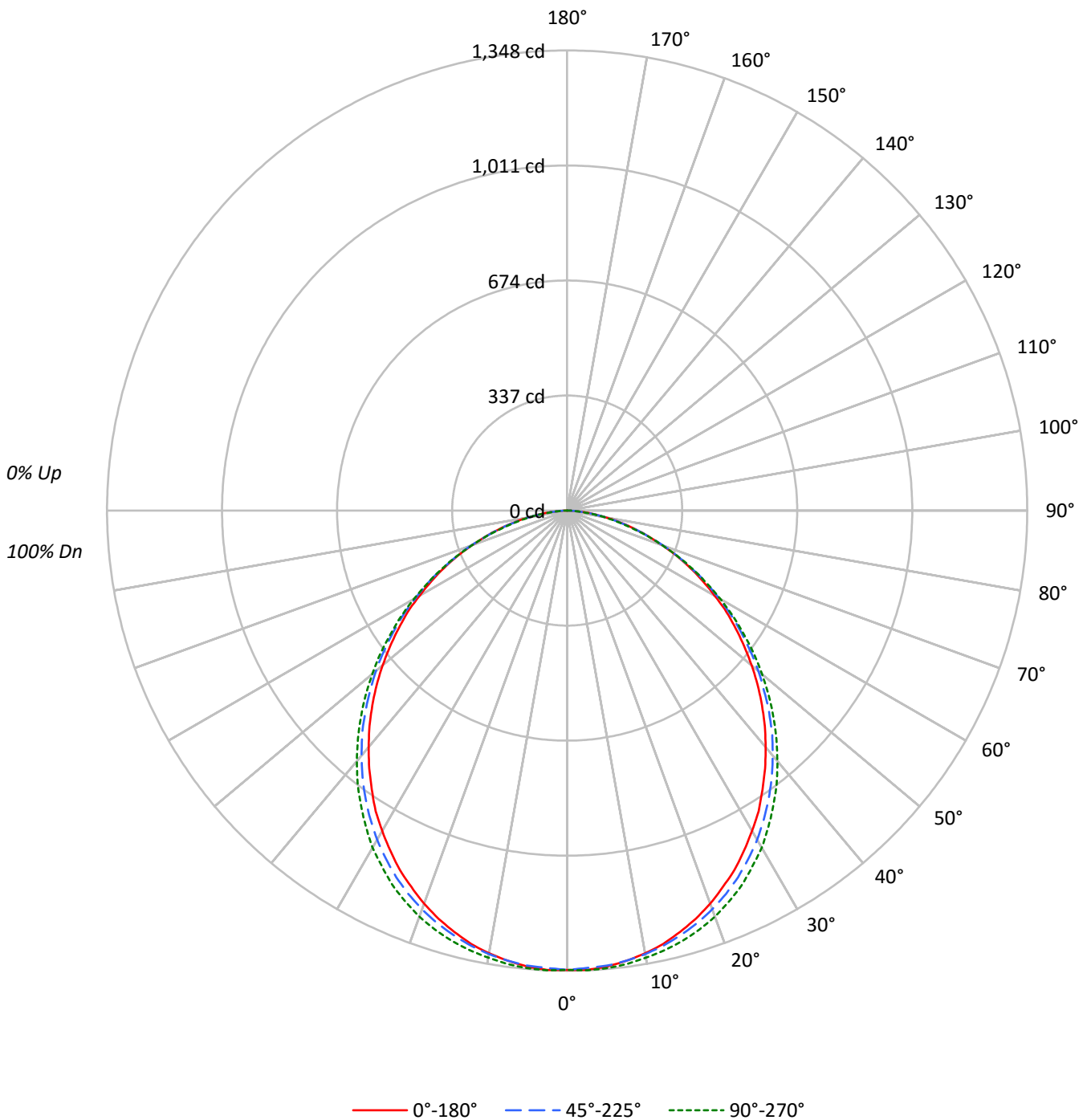
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1810	1810	1810
5°	1811	1808	1817
10°	1799	1802	1817
15°	1780	1793	1818
20°	1754	1780	1812
25°	1723	1759	1798
30°	1683	1730	1772
35°	1639	1691	1731
40°	1589	1645	1683
45°	1535	1592	1626
50°	1477	1532	1559
55°	1415	1459	1482
60°	1344	1379	1395
65°	1267	1286	1294
70°	1163	1177	1163
75°	1047	1041	1010
80°	886	877	849
85°	662	644	570



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.6
10°-20°	363.9	10.3
20°-30°	545.7	15.4
30°-40°	642.6	18.2
40°-50°	642.7	18.2
50°-60°	554.6	15.7
60°-70°	399.0	11.3
70°-80°	211.6	6.0
80°-90°	50.5	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°	1037.0	29.3
0°-40°	1679.6	47.5
0°-60°	2876.9	81.3
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1341	1340	1338	1343	1346	127
15°	1278	1281	1287	1300	1305	360
25°	1161	1168	1185	1205	1211	534
35°	998	1010	1030	1048	1054	624
45°	807	818	837	851	854	622
55°	603	609	622	633	632	540
65°	398	399	404	406	406	394
75°	201	199	200	196	194	214
85°	43	43	42	38	37	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.6	1345.6	1345.6	1345.6	1345.6
2.5°	1346.8	1344.4	1340.8	1345.6	1348.0
5°	1340.8	1339.6	1338.4	1343.2	1345.6
7.5°	1330.1	1331.3	1330.1	1337.2	1339.6
10°	1317.0	1318.2	1319.3	1327.7	1330.1
12.5°	1300.3	1301.5	1305.0	1315.8	1319.3
15°	1277.6	1281.2	1287.2	1300.3	1305.0
17.5°	1253.8	1258.6	1266.9	1282.4	1287.2
20°	1225.2	1231.2	1243.1	1259.8	1265.7
22.5°	1193.0	1199.0	1215.7	1233.5	1239.5
25°	1160.8	1168.0	1184.7	1204.9	1210.9
27.5°	1122.7	1132.2	1150.1	1170.4	1175.1
30°	1083.4	1091.7	1113.2	1132.2	1140.6
32.5°	1044.0	1052.4	1072.6	1091.7	1097.7
35°	997.6	1009.5	1029.7	1047.6	1053.6
37.5°	952.3	963.0	984.4	1002.3	1008.3
40°	904.6	914.1	936.8	953.5	958.2
42.5°	856.9	866.5	889.1	902.2	907.0
45°	806.9	817.6	836.7	851.0	854.5
47.5°	756.8	765.1	783.0	796.1	800.9
50°	705.6	713.9	731.8	742.5	744.9
52.5°	654.3	660.3	677.0	686.5	690.1
55°	603.1	609.0	622.1	632.9	631.7
57.5°	554.2	556.6	569.7	576.8	576.8
60°	499.4	501.8	512.5	517.3	518.4
62.5°	448.1	451.7	460.0	461.2	461.2
65°	398.1	399.3	404.0	406.4	406.4
67.5°	348.0	346.8	351.6	351.6	350.4
70°	295.6	298.0	299.1	296.8	295.6
72.5°	247.9	246.7	246.7	245.5	245.5
75°	201.4	199.0	200.2	195.5	194.3
77.5°	158.5	154.9	153.7	151.4	149.0
80°	114.4	114.4	113.2	110.8	109.6
82.5°	76.3	76.3	75.1	72.7	70.3
85°	42.9	42.9	41.7	38.1	36.9
87.5°	14.3	14.3	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)