

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: P297208

Luminaire Tested: **D3X-WG-45L92765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-45L92765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

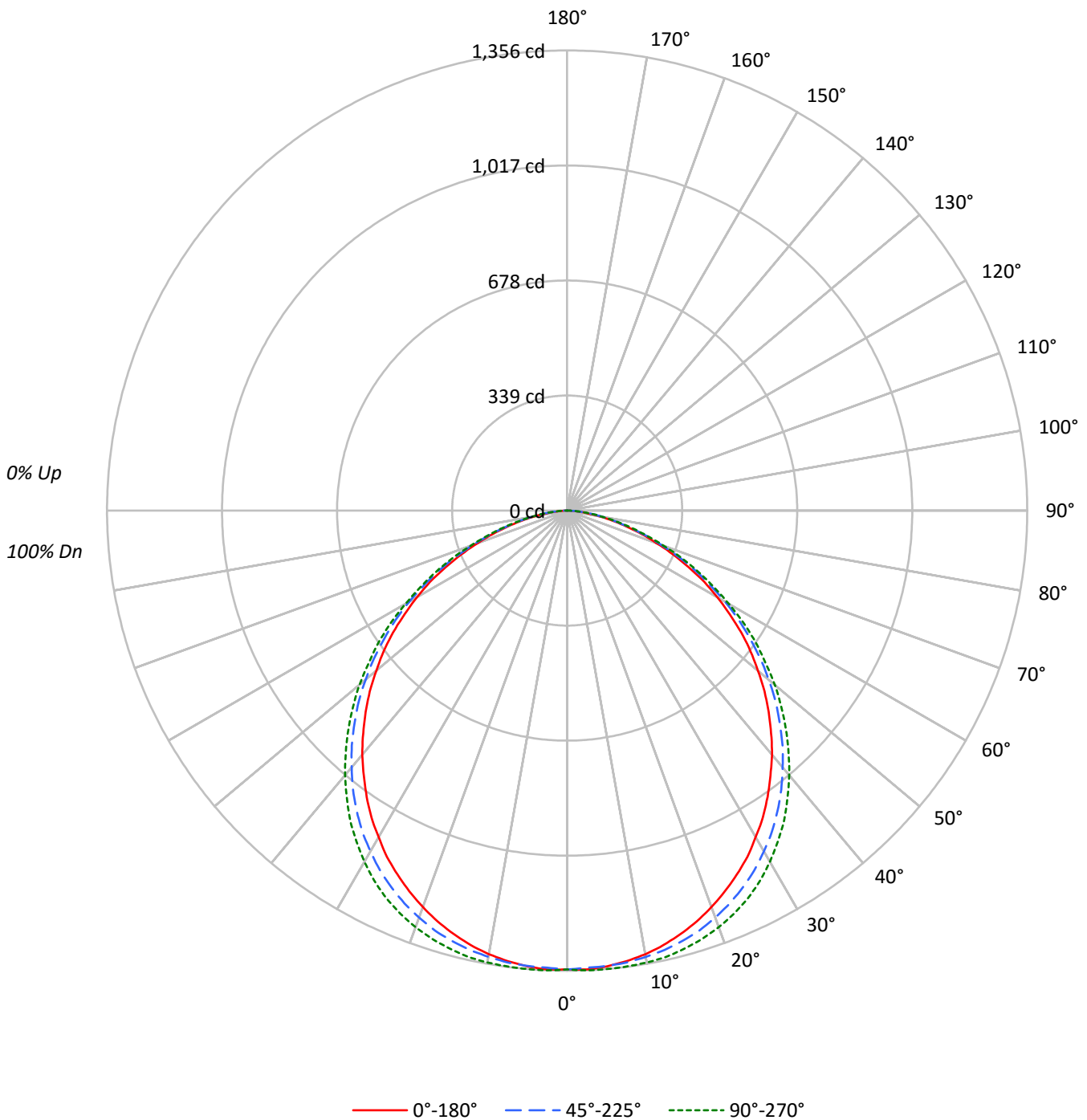
Input Watts (W): 31.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	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	27		38	32	27		37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1820	1820	1820
5°	1821	1819	1832
10°	1814	1824	1848
15°	1800	1829	1862
20°	1780	1827	1871
25°	1757	1819	1871
30°	1726	1802	1857
35°	1692	1776	1832
40°	1650	1735	1788
45°	1598	1686	1735
50°	1536	1624	1673
55°	1469	1543	1592
60°	1375	1446	1481
65°	1256	1323	1356
70°	1103	1160	1191
75°	933	981	1015
80°	742	812	832
85°	506	607	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.5
10°-20°	371.0	10.1
20°-30°	563.7	15.4
30°-40°	672.7	18.4
40°-50°	679.4	18.6
50°-60°	585.3	16.0
60°-70°	408.0	11.2
70°-80°	202.2	5.5
80°-90°	47.1	1.3
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°	1063.2	29.1
0°-40°	1735.9	47.5
0°-60°	3000.6	82.0
0°-90°	3658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1348	1347	1347	1354	1356	128
15°	1292	1299	1313	1330	1337	364
25°	1183	1199	1225	1250	1261	545
35°	1030	1047	1081	1106	1115	644
45°	840	858	886	907	912	647
55°	626	640	658	674	679	558
65°	394	402	415	419	426	392
75°	180	182	189	193	195	194
85°	33	39	39	37	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.3	1352.3	1352.3	1352.3	1352.3
2.5°	1353.6	1351.0	1348.4	1353.6	1356.2
5°	1348.4	1347.0	1347.0	1353.6	1356.2
7.5°	1339.2	1339.2	1343.1	1352.3	1354.9
10°	1327.4	1330.0	1335.3	1348.4	1352.3
12.5°	1311.7	1316.9	1326.1	1341.8	1347.0
15°	1292.0	1298.6	1313.0	1330.0	1336.6
17.5°	1269.7	1278.9	1297.3	1316.9	1323.5
20°	1243.5	1255.3	1276.3	1298.6	1306.4
22.5°	1214.7	1229.1	1252.7	1276.3	1285.5
25°	1183.2	1199.0	1225.2	1250.1	1260.6
27.5°	1150.5	1166.2	1195.0	1219.9	1230.4
30°	1111.2	1129.5	1159.7	1185.9	1195.0
32.5°	1073.2	1091.5	1123.0	1146.6	1155.7
35°	1029.9	1047.0	1081.0	1105.9	1115.1
37.5°	984.1	1003.7	1036.5	1058.8	1066.6
40°	939.5	956.6	988.0	1010.3	1018.1
42.5°	889.7	908.1	939.5	959.2	965.7
45°	839.9	858.3	885.8	906.8	912.0
47.5°	788.8	805.9	833.4	850.4	855.7
50°	733.8	749.5	775.7	792.8	799.3
52.5°	681.4	695.8	718.1	732.5	736.4
55°	626.3	639.5	657.8	673.5	678.8
57.5°	567.4	581.8	598.8	611.9	615.9
60°	511.0	522.8	537.2	549.0	550.3
62.5°	456.0	461.2	474.3	484.8	486.1
65°	394.4	402.3	415.4	419.3	425.9
67.5°	338.1	343.3	353.8	359.0	364.3
70°	280.4	284.3	294.8	301.4	302.7
72.5°	230.6	231.9	239.8	245.0	246.3
75°	179.5	182.1	188.7	192.6	195.2
77.5°	136.3	138.9	144.1	146.8	146.8
80°	95.7	99.6	104.8	106.1	107.4
82.5°	61.6	66.8	70.8	72.1	69.4
85°	32.8	39.3	39.3	36.7	38.0
87.5°	11.8	14.4	15.7	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)