

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: P297207

Luminaire Tested: **D3X-WG-45L92765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297207
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3484.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

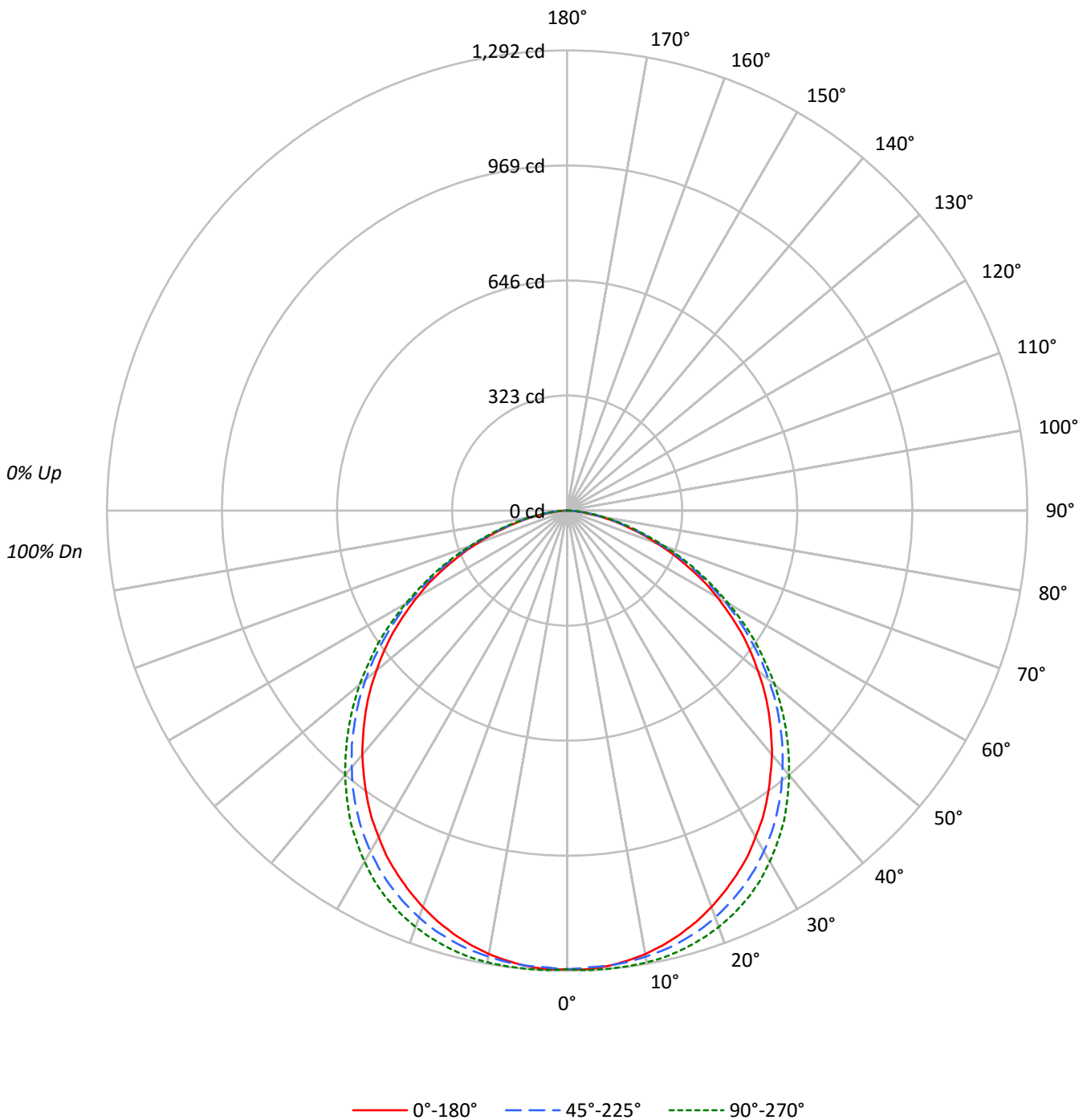
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1733	1733	1733
5°	1734	1733	1745
10°	1727	1737	1760
15°	1714	1742	1773
20°	1696	1741	1782
25°	1673	1732	1782
30°	1644	1716	1768
35°	1611	1691	1745
40°	1572	1653	1703
45°	1522	1605	1653
50°	1463	1546	1594
55°	1399	1470	1517
60°	1310	1377	1411
65°	1196	1259	1291
70°	1051	1105	1134
75°	889	934	967
80°	706	773	793
85°	482	577	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.5
10°-20°	353.3	10.1
20°-30°	536.9	15.4
30°-40°	640.7	18.4
40°-50°	647.1	18.6
50°-60°	557.5	16.0
60°-70°	388.6	11.2
70°-80°	192.6	5.5
80°-90°	44.9	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°	1012.6	29.1
0°-40°	1653.3	47.5
0°-60°	2857.9	82.0
0°-90°	3484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1284	1283	1283	1289	1292	122
15°	1231	1237	1250	1267	1273	347
25°	1127	1142	1167	1191	1201	519
35°	981	997	1030	1053	1062	613
45°	800	818	844	864	869	617
55°	597	609	626	642	646	532
65°	376	383	396	399	406	373
75°	171	174	180	184	186	184
85°	31	37	37	35	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.0	1288.0	1288.0	1288.0	1288.0
2.5°	1289.2	1286.7	1284.2	1289.2	1291.7
5°	1284.2	1283.0	1283.0	1289.2	1291.7
7.5°	1275.5	1275.5	1279.2	1288.0	1290.5
10°	1264.2	1266.7	1271.7	1284.2	1288.0
12.5°	1249.3	1254.3	1263.0	1278.0	1283.0
15°	1230.6	1236.8	1250.5	1266.7	1273.0
17.5°	1209.3	1218.1	1235.5	1254.3	1260.5
20°	1184.4	1195.6	1215.6	1236.8	1244.3
22.5°	1156.9	1170.6	1193.1	1215.6	1224.3
25°	1127.0	1141.9	1166.9	1190.6	1200.6
27.5°	1095.8	1110.7	1138.2	1161.9	1171.9
30°	1058.3	1075.8	1104.5	1129.5	1138.2
32.5°	1022.1	1039.6	1069.6	1092.0	1100.8
35°	980.9	997.2	1029.6	1053.3	1062.1
37.5°	937.3	956.0	987.2	1008.4	1015.9
40°	894.8	911.1	941.0	962.2	969.7
42.5°	847.4	864.9	894.8	913.6	919.8
45°	800.0	817.5	843.7	863.6	868.6
47.5°	751.3	767.5	793.7	810.0	815.0
50°	698.9	713.9	738.8	755.1	761.3
52.5°	649.0	662.7	683.9	697.6	701.4
55°	596.6	609.0	626.5	641.5	646.5
57.5°	540.4	554.1	570.3	582.8	586.6
60°	486.7	498.0	511.7	522.9	524.2
62.5°	434.3	439.3	451.8	461.8	463.0
65°	375.7	383.1	395.6	399.4	405.6
67.5°	322.0	327.0	337.0	342.0	347.0
70°	267.1	270.8	280.8	287.0	288.3
72.5°	219.7	220.9	228.4	233.4	234.6
75°	171.0	173.5	179.7	183.5	186.0
77.5°	129.8	132.3	137.3	139.8	139.8
80°	91.1	94.8	99.8	101.1	102.3
82.5°	58.7	63.6	67.4	68.6	66.1
85°	31.2	37.4	37.4	34.9	36.2
87.5°	11.2	13.7	15.0	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)