

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: P297144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297144
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-45L93050-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: 3327.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

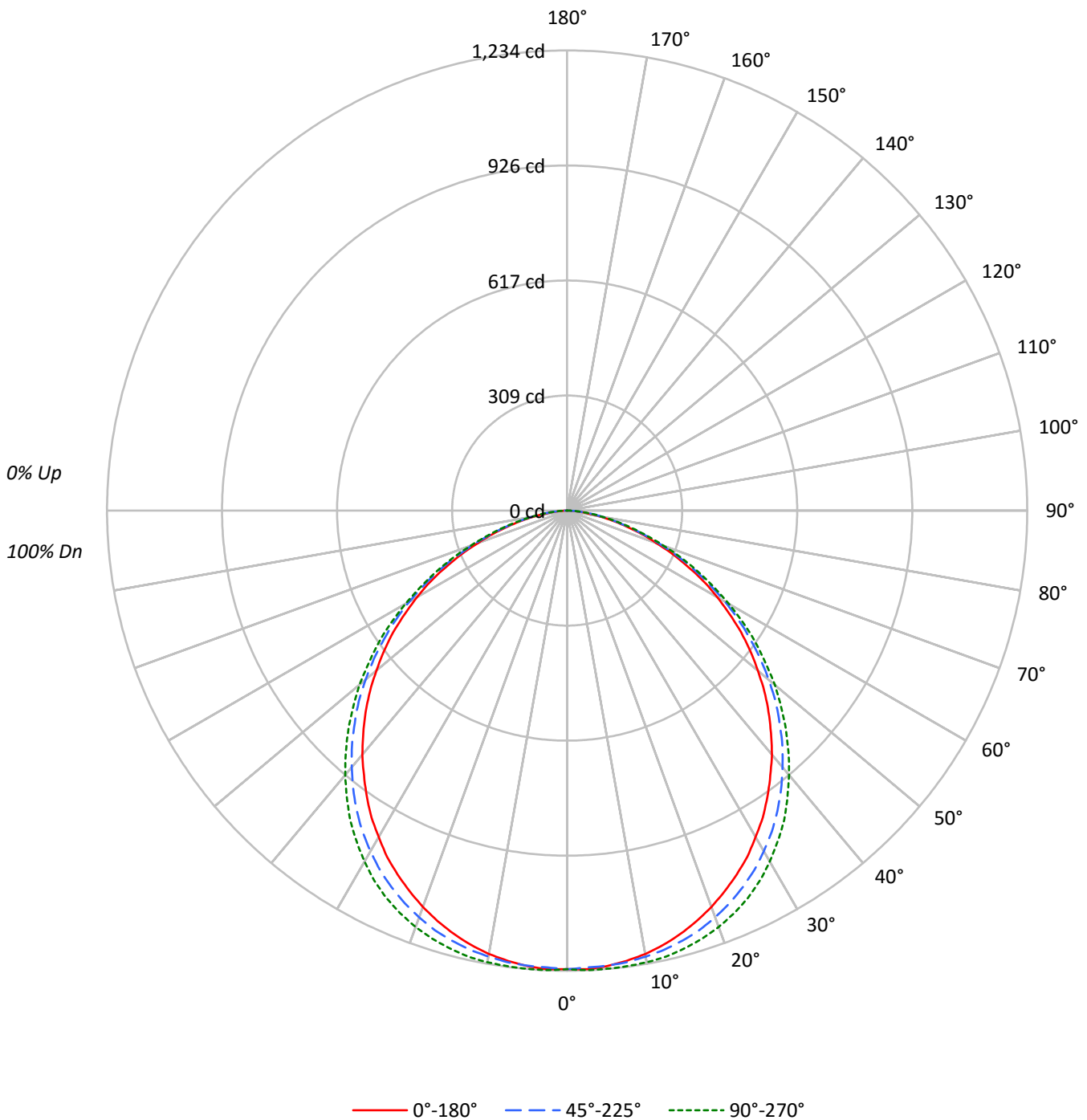
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1655	1655	1655
5°	1656	1655	1666
10°	1649	1659	1680
15°	1637	1663	1693
20°	1619	1662	1701
25°	1598	1654	1702
30°	1570	1639	1689
35°	1539	1615	1666
40°	1501	1578	1626
45°	1454	1533	1578
50°	1397	1477	1522
55°	1336	1403	1448
60°	1251	1315	1347
65°	1142	1203	1233
70°	1003	1055	1083
75°	849	892	923
80°	674	738	757
85°	460	553	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.5
10°-20°	337.4	10.1
20°-30°	512.7	15.4
30°-40°	611.8	18.4
40°-50°	617.9	18.6
50°-60°	532.4	16.0
60°-70°	371.1	11.2
70°-80°	183.9	5.5
80°-90°	42.9	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°	967.0	29.1
0°-40°	1578.8	47.5
0°-60°	2729.1	82.0
0°-90°	3327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1226	1225	1225	1231	1234	116
15°	1175	1181	1194	1210	1216	331
25°	1076	1090	1114	1137	1146	496
35°	937	952	983	1006	1014	585
45°	764	781	806	825	830	589
55°	570	582	598	613	617	508
65°	359	366	378	381	387	356
75°	163	166	172	175	178	176
85°	30	36	36	33	35	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1231.1	1228.7	1226.3	1231.1	1233.5
5°	1226.3	1225.2	1225.2	1231.1	1233.5
7.5°	1218.0	1218.0	1221.6	1229.9	1232.3
10°	1207.3	1209.7	1214.4	1226.3	1229.9
12.5°	1193.0	1197.7	1206.1	1220.4	1225.2
15°	1175.1	1181.1	1194.2	1209.7	1215.6
17.5°	1154.8	1163.2	1179.9	1197.7	1203.7
20°	1131.0	1141.7	1160.8	1181.1	1188.2
22.5°	1104.8	1117.9	1139.3	1160.8	1169.1
25°	1076.2	1090.5	1114.3	1137.0	1146.5
27.5°	1046.4	1060.7	1086.9	1109.6	1119.1
30°	1010.6	1027.3	1054.7	1078.6	1086.9
32.5°	976.1	992.8	1021.4	1042.8	1051.2
35°	936.7	952.2	983.2	1005.9	1014.2
37.5°	895.0	912.9	942.7	963.0	970.1
40°	854.5	870.0	898.6	918.9	926.0
42.5°	809.2	825.9	854.5	872.4	878.3
45°	763.9	780.6	805.6	824.7	829.5
47.5°	717.5	732.9	758.0	773.5	778.2
50°	667.4	681.7	705.5	721.0	727.0
52.5°	619.7	632.8	653.1	666.2	669.8
55°	569.7	581.6	598.3	612.6	617.3
57.5°	516.0	529.2	544.6	556.6	560.1
60°	464.8	475.5	488.6	499.4	500.5
62.5°	414.7	419.5	431.4	441.0	442.2
65°	358.7	365.9	377.8	381.4	387.3
67.5°	307.5	312.2	321.8	326.5	331.3
70°	255.0	258.6	268.2	274.1	275.3
72.5°	209.8	210.9	218.1	222.9	224.1
75°	163.3	165.7	171.6	175.2	177.6
77.5°	123.9	126.3	131.1	133.5	133.5
80°	87.0	90.6	95.3	96.5	97.7
82.5°	56.0	60.8	64.4	65.5	63.2
85°	29.8	35.8	35.8	33.4	34.6
87.5°	10.7	13.1	14.3	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)