

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: P297138

Luminaire Tested: **D3X-WG-36L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297138
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-36L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3226.0 lumens
Efficiency: N/A
Efficacy: 123.1 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

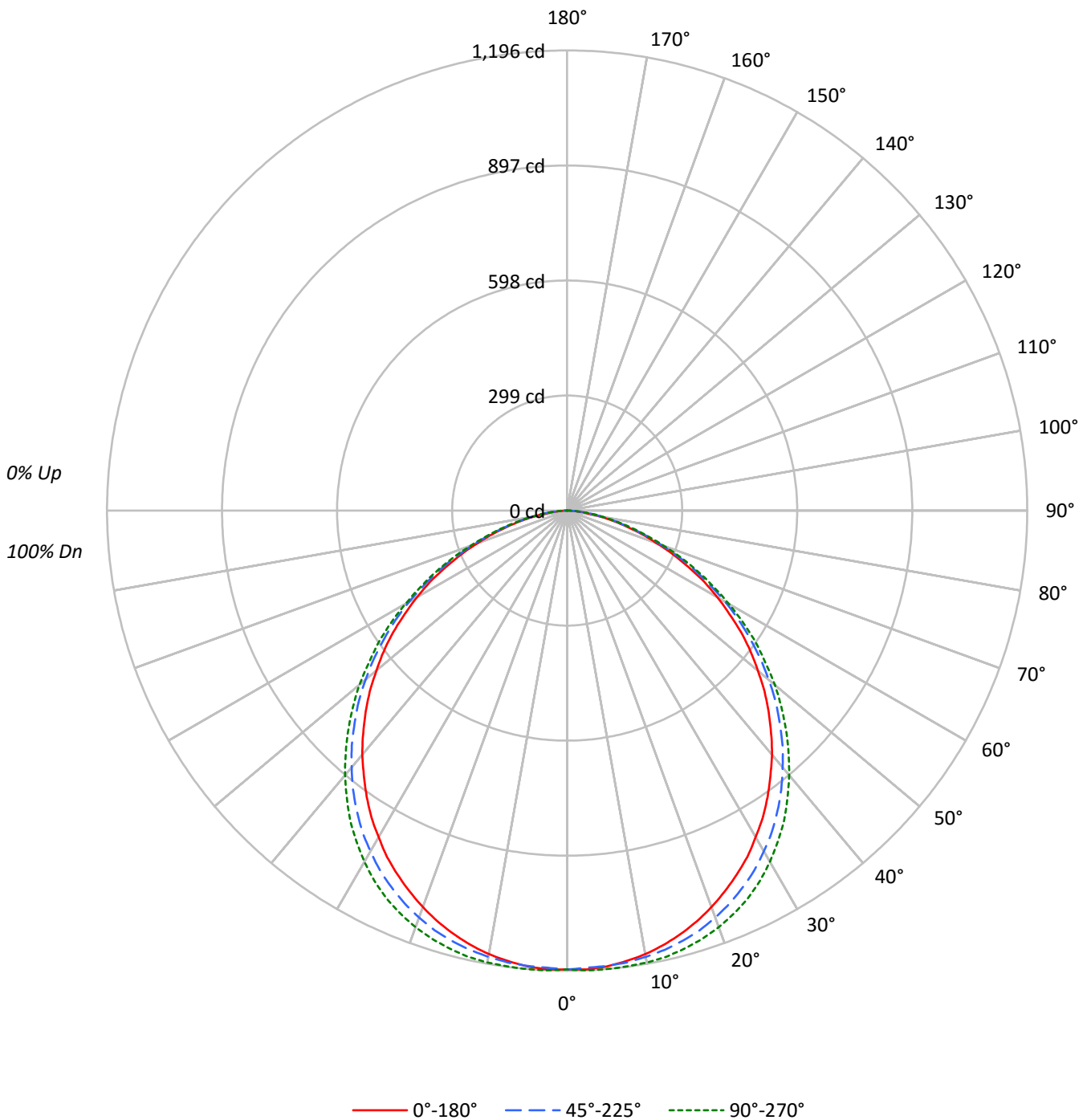
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1605	1605	1605
5°	1606	1605	1615
10°	1599	1609	1629
15°	1587	1613	1642
20°	1570	1612	1650
25°	1549	1604	1650
30°	1523	1589	1637
35°	1492	1566	1615
40°	1455	1530	1577
45°	1409	1486	1530
50°	1355	1432	1476
55°	1296	1361	1404
60°	1213	1275	1306
65°	1107	1166	1196
70°	973	1023	1050
75°	823	865	895
80°	654	716	735
85°	446	536	517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.5
10°-20°	327.1	10.1
20°-30°	497.2	15.4
30°-40°	593.2	18.4
40°-50°	599.2	18.6
50°-60°	516.2	16.0
60°-70°	359.9	11.2
70°-80°	178.3	5.5
80°-90°	41.6	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°	937.6	29.1
0°-40°	1530.9	47.5
0°-60°	2646.2	82.0
0°-90°	3226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1189	1188	1188	1194	1196	113
15°	1139	1145	1158	1173	1179	321
25°	1044	1057	1080	1102	1112	481
35°	908	923	953	975	983	568
45°	741	757	781	800	804	571
55°	552	564	580	594	599	492
65°	348	355	366	370	376	345
75°	158	161	166	170	172	171
85°	29	35	35	32	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.6	1192.6	1192.6	1192.6	1192.6
2.5°	1193.7	1191.4	1189.1	1193.7	1196.1
5°	1189.1	1188.0	1188.0	1193.7	1196.1
7.5°	1181.0	1181.0	1184.5	1192.6	1194.9
10°	1170.6	1172.9	1177.6	1189.1	1192.6
12.5°	1156.8	1161.4	1169.5	1183.3	1188.0
15°	1139.4	1145.2	1157.9	1172.9	1178.7
17.5°	1119.8	1127.9	1144.0	1161.4	1167.2
20°	1096.7	1107.1	1125.6	1145.2	1152.1
22.5°	1071.2	1084.0	1104.8	1125.6	1133.6
25°	1043.5	1057.4	1080.5	1102.4	1111.7
27.5°	1014.6	1028.5	1053.9	1075.9	1085.1
30°	980.0	996.1	1022.7	1045.8	1053.9
32.5°	946.4	962.6	990.4	1011.2	1019.2
35°	908.3	923.3	953.4	975.3	983.4
37.5°	867.9	885.2	914.1	933.7	940.7
40°	828.6	843.6	871.3	891.0	897.9
42.5°	784.7	800.8	828.6	845.9	851.7
45°	740.7	756.9	781.2	799.7	804.3
47.5°	695.7	710.7	735.0	750.0	754.6
50°	647.1	661.0	684.1	699.1	704.9
52.5°	600.9	613.6	633.3	646.0	649.4
55°	552.4	563.9	580.1	594.0	598.6
57.5°	500.4	513.1	528.1	539.7	543.1
60°	450.7	461.1	473.8	484.2	485.4
62.5°	402.2	406.8	418.3	427.6	428.7
65°	347.8	354.8	366.3	369.8	375.6
67.5°	298.1	302.8	312.0	316.6	321.3
70°	247.3	250.8	260.0	265.8	266.9
72.5°	203.4	204.5	211.5	216.1	217.3
75°	158.3	160.6	166.4	169.9	172.2
77.5°	120.2	122.5	127.1	129.4	129.4
80°	84.4	87.8	92.4	93.6	94.8
82.5°	54.3	58.9	62.4	63.6	61.2
85°	28.9	34.7	34.7	32.4	33.5
87.5°	10.4	12.7	13.9	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)