

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: P297573

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L83050-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4083.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

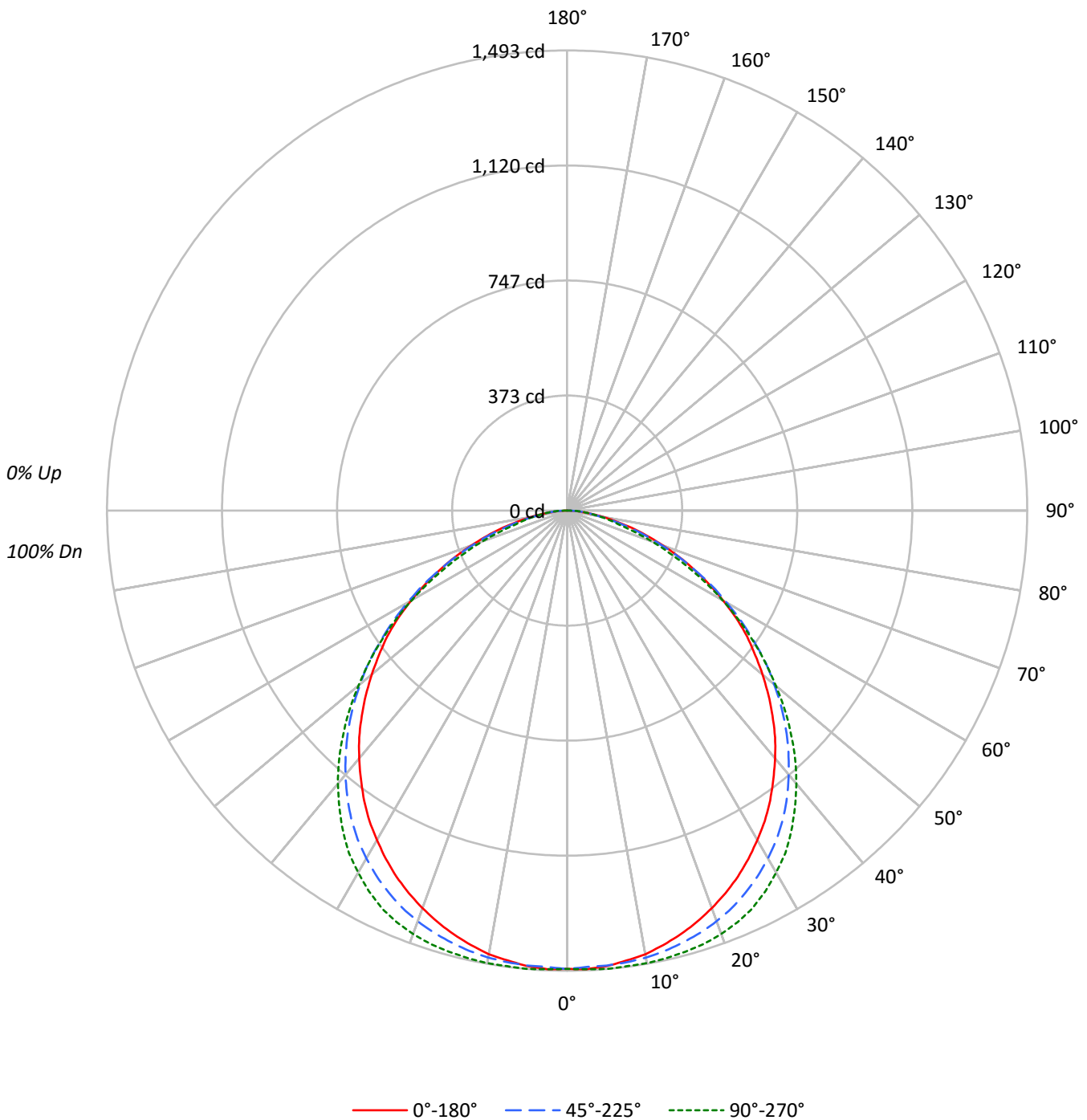
Input Watts (W): 41.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	48	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	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4002	4002	4002
5°	4008	4003	4032
10°	3994	4024	4074
15°	3965	4042	4128
20°	3930	4061	4186
25°	3891	4064	4226
30°	3834	4049	4213
35°	3772	4011	4167
40°	3688	3931	4065
45°	3586	3822	3912
50°	3464	3670	3700
55°	3343	3472	3454
60°	3148	3217	3139
65°	2901	2913	2750
70°	2596	2538	2308
75°	2255	2103	1781
80°	1807	1638	1638
85°	1294	1519	1575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.5
10°-20°	410.5	10.1
20°-30°	630.4	15.4
30°-40°	759.2	18.6
40°-50°	767.2	18.8
50°-60°	654.4	16.0
60°-70°	448.0	11.0
70°-80°	216.2	5.3
80°-90°	55.7	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°	1182.4	29.0
0°-40°	1941.6	47.6
0°-60°	3363.2	82.4
0°-90°	4083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1484	1484	1482	1491	1493	141
15°	1423	1434	1451	1476	1482	402
25°	1310	1330	1369	1409	1423	603
35°	1148	1174	1221	1259	1268	717
45°	942	968	1004	1028	1028	727
55°	713	725	740	744	736	635
65°	456	461	458	441	432	452
75°	217	217	202	179	171	230
85°	42	46	49	51	51	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.2	1487.2	1487.2	1487.2	1487.2
2.5°	1489.0	1487.2	1481.8	1489.0	1489.0
5°	1483.6	1483.6	1481.8	1490.9	1492.7
7.5°	1472.6	1476.3	1478.1	1489.0	1490.9
10°	1461.7	1465.3	1472.6	1487.2	1490.9
12.5°	1443.5	1450.8	1463.5	1483.6	1487.2
15°	1423.4	1434.4	1450.8	1476.3	1481.8
17.5°	1399.7	1414.3	1436.2	1465.3	1474.5
20°	1372.4	1388.8	1418.0	1450.8	1461.7
22.5°	1343.2	1361.5	1396.1	1434.4	1445.3
25°	1310.4	1330.5	1368.8	1408.8	1423.4
27.5°	1274.0	1295.8	1337.8	1379.7	1392.4
30°	1233.9	1257.6	1303.1	1345.1	1356.0
32.5°	1193.8	1217.5	1264.9	1305.0	1317.7
35°	1148.2	1173.7	1221.1	1259.4	1268.5
37.5°	1099.0	1124.5	1171.9	1210.2	1213.8
40°	1049.8	1075.3	1119.1	1153.7	1157.3
42.5°	998.8	1022.5	1062.6	1091.7	1095.4
45°	942.3	967.8	1004.2	1027.9	1027.9
47.5°	885.8	911.3	942.3	958.7	958.7
50°	827.4	851.1	876.7	885.8	883.9
52.5°	769.1	791.0	812.9	814.7	811.0
55°	712.6	725.4	740.0	743.6	736.3
57.5°	650.7	661.6	670.7	665.2	659.8
60°	585.0	596.0	597.8	588.7	583.2
62.5°	521.3	530.4	530.4	515.8	506.7
65°	455.6	461.1	457.5	441.1	431.9
67.5°	393.7	397.3	390.0	373.6	359.0
70°	329.9	331.7	322.6	302.5	293.4
72.5°	271.6	273.4	262.5	238.8	227.8
75°	216.9	216.9	202.3	178.6	171.3
77.5°	162.2	167.7	151.3	138.5	138.5
80°	116.6	122.1	105.7	107.5	105.7
82.5°	76.5	82.0	76.5	76.5	76.5
85°	41.9	45.6	49.2	51.0	51.0
87.5°	12.8	21.9	23.7	25.5	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)