

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: P297274

Luminaire Tested: **D3X-WO-36L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-36L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

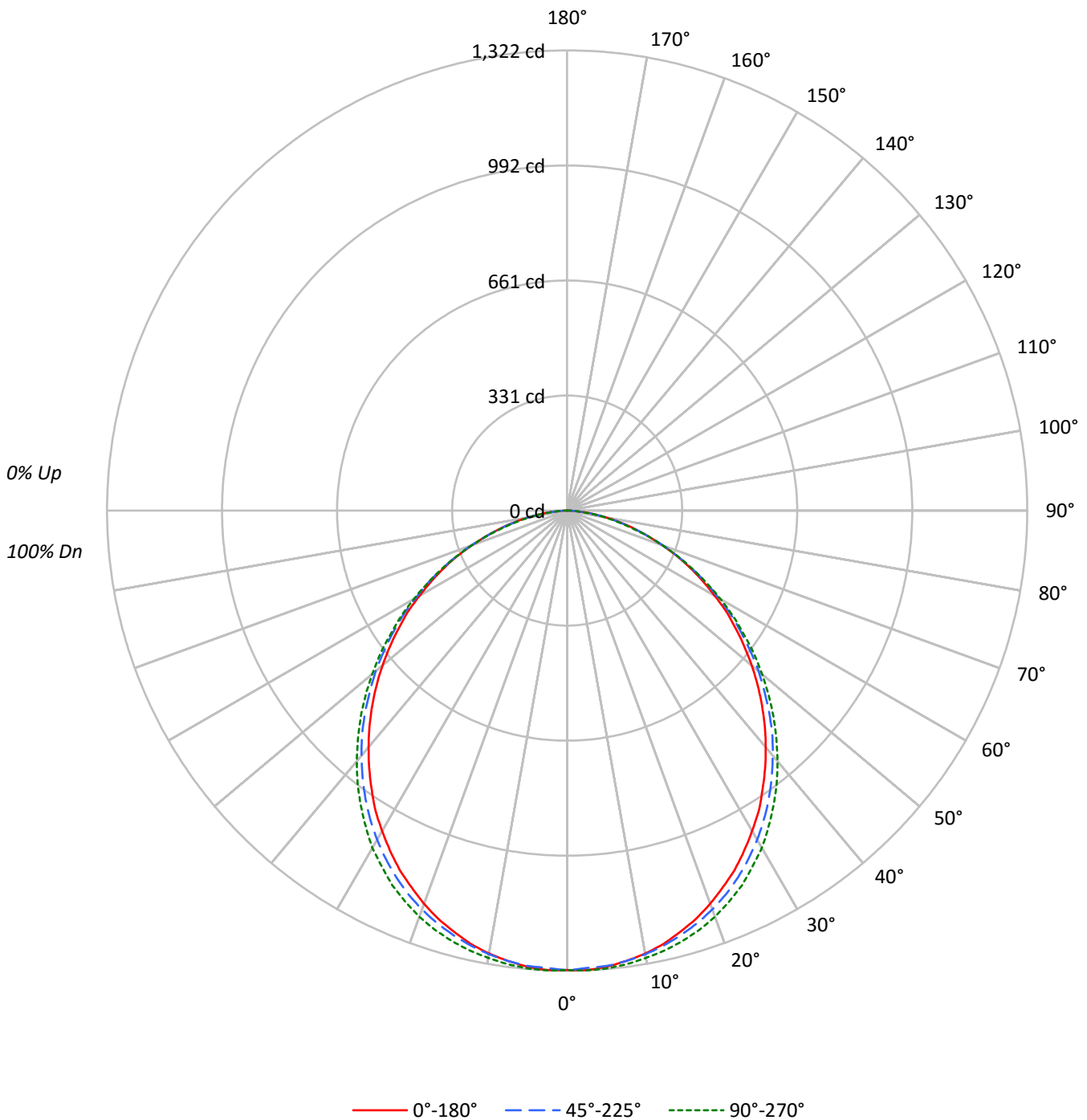
Input Watts (W): 25.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1776	1776	1776
5°	1777	1774	1783
10°	1765	1768	1783
15°	1746	1759	1783
20°	1721	1746	1778
25°	1691	1725	1764
30°	1651	1697	1739
35°	1608	1659	1698
40°	1559	1614	1651
45°	1506	1562	1595
50°	1449	1503	1530
55°	1388	1432	1454
60°	1318	1353	1369
65°	1243	1262	1269
70°	1141	1155	1141
75°	1027	1021	991
80°	869	861	834
85°	650	631	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.6
10°-20°	357.0	10.3
20°-30°	535.3	15.4
30°-40°	630.4	18.2
40°-50°	630.5	18.2
50°-60°	544.0	15.7
60°-70°	391.5	11.3
70°-80°	207.6	6.0
80°-90°	49.5	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°	1017.3	29.3
0°-40°	1647.8	47.5
0°-60°	2822.3	81.3
0°-90°	3471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1315	1314	1313	1318	1320	125
15°	1253	1257	1263	1276	1280	353
25°	1139	1146	1162	1182	1188	524
35°	979	990	1010	1028	1034	612
45°	792	802	821	835	838	611
55°	592	598	610	621	620	529
65°	390	392	396	399	399	386
75°	198	195	196	192	191	210
85°	42	42	41	37	36	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.1	1320.1	1320.1	1320.1	1320.1
2.5°	1321.3	1318.9	1315.4	1320.1	1322.4
5°	1315.4	1314.2	1313.1	1317.7	1320.1
7.5°	1304.9	1306.1	1304.9	1311.9	1314.2
10°	1292.0	1293.2	1294.4	1302.5	1304.9
12.5°	1275.7	1276.8	1280.3	1290.9	1294.4
15°	1253.4	1256.9	1262.8	1275.7	1280.3
17.5°	1230.1	1234.7	1242.9	1258.1	1262.8
20°	1202.0	1207.8	1219.5	1235.9	1241.7
22.5°	1170.4	1176.3	1192.6	1210.2	1216.0
25°	1138.9	1145.9	1162.2	1182.1	1188.0
27.5°	1101.4	1110.8	1128.3	1148.2	1152.9
30°	1062.9	1071.0	1092.1	1110.8	1119.0
32.5°	1024.3	1032.4	1052.3	1071.0	1076.9
35°	978.7	990.4	1010.2	1027.8	1033.6
37.5°	934.2	944.8	965.8	983.3	989.2
40°	887.5	896.8	919.0	935.4	940.1
42.5°	840.7	850.0	872.3	885.1	889.8
45°	791.6	802.1	820.8	834.8	838.4
47.5°	742.5	750.7	768.2	781.1	785.7
50°	692.2	700.4	717.9	728.4	730.8
52.5°	641.9	647.8	664.1	673.5	677.0
55°	591.6	597.5	610.3	620.9	619.7
57.5°	543.7	546.0	558.9	565.9	565.9
60°	489.9	492.3	502.8	507.5	508.6
62.5°	439.6	443.1	451.3	452.5	452.5
65°	390.5	391.7	396.4	398.7	398.7
67.5°	341.4	340.3	344.9	344.9	343.8
70°	290.0	292.3	293.5	291.1	290.0
72.5°	243.2	242.0	242.0	240.9	240.9
75°	197.6	195.3	196.4	191.8	190.6
77.5°	155.5	152.0	150.8	148.5	146.2
80°	112.2	112.2	111.1	108.7	107.6
82.5°	74.8	74.8	73.7	71.3	69.0
85°	42.1	42.1	40.9	37.4	36.2
87.5°	14.0	14.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)