

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: P296995

Luminaire Tested: **D3X-WG-36L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296995
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-36L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3454.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

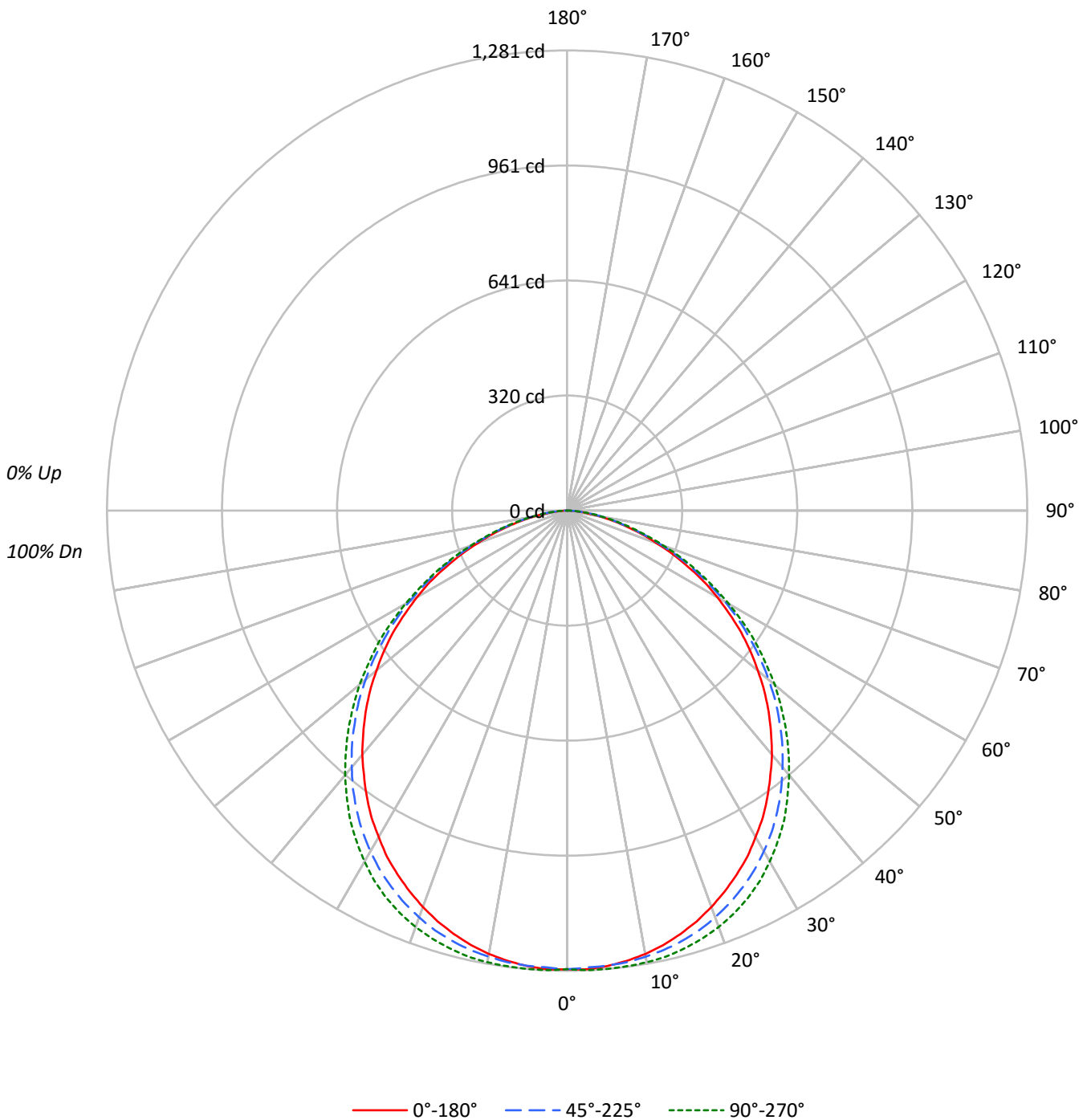
Input Watts (W): 25.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1718	1718	1718
5°	1720	1718	1730
10°	1712	1723	1745
15°	1699	1727	1758
20°	1681	1726	1766
25°	1659	1718	1767
30°	1630	1701	1753
35°	1597	1677	1729
40°	1558	1639	1689
45°	1509	1592	1639
50°	1450	1533	1580
55°	1387	1457	1503
60°	1298	1365	1399
65°	1186	1249	1280
70°	1042	1095	1124
75°	881	926	959
80°	700	767	786
85°	477	573	554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.5
10°-20°	350.3	10.1
20°-30°	532.3	15.4
30°-40°	635.2	18.4
40°-50°	641.5	18.6
50°-60°	552.7	16.0
60°-70°	385.3	11.2
70°-80°	191.0	5.5
80°-90°	44.5	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°	1003.9	29.1
0°-40°	1639.1	47.5
0°-60°	2833.3	82.0
0°-90°	3454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1273	1272	1272	1278	1281	121
15°	1220	1226	1240	1256	1262	344
25°	1117	1132	1157	1180	1190	515
35°	972	989	1021	1044	1053	608
45°	793	810	836	856	861	611
55°	591	604	621	636	641	527
65°	372	380	392	396	402	370
75°	170	172	178	182	184	183
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°	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1278.1	1275.6	1273.2	1278.1	1280.6
5°	1273.2	1271.9	1271.9	1278.1	1280.6
7.5°	1264.5	1264.5	1268.2	1276.9	1279.3
10°	1253.4	1255.8	1260.8	1273.2	1276.9
12.5°	1238.5	1243.5	1252.1	1267.0	1271.9
15°	1220.0	1226.1	1239.8	1255.8	1262.0
17.5°	1198.9	1207.6	1224.9	1243.5	1249.7
20°	1174.2	1185.3	1205.1	1226.1	1233.6
22.5°	1147.0	1160.6	1182.8	1205.1	1213.8
25°	1117.3	1132.1	1156.9	1180.4	1190.3
27.5°	1086.3	1101.2	1128.4	1151.9	1161.8
30°	1049.2	1066.5	1095.0	1119.7	1128.4
32.5°	1013.3	1030.7	1060.3	1082.6	1091.3
35°	972.5	988.6	1020.8	1044.3	1052.9
37.5°	929.2	947.8	978.7	999.7	1007.1
40°	887.1	903.2	932.9	953.9	961.4
42.5°	840.1	857.4	887.1	905.7	911.9
45°	793.1	810.4	836.4	856.2	861.1
47.5°	744.8	760.9	786.9	803.0	807.9
50°	692.9	707.7	732.5	748.6	754.7
52.5°	643.4	657.0	678.0	691.6	695.4
55°	591.4	603.8	621.1	636.0	640.9
57.5°	535.7	549.4	565.4	577.8	581.5
60°	482.5	493.7	507.3	518.4	519.7
62.5°	430.6	435.5	447.9	457.8	459.0
65°	372.4	379.8	392.2	395.9	402.1
67.5°	319.2	324.2	334.1	339.0	344.0
70°	264.8	268.5	278.4	284.6	285.8
72.5°	217.8	219.0	226.4	231.4	232.6
75°	169.5	172.0	178.2	181.9	184.4
77.5°	128.7	131.2	136.1	138.6	138.6
80°	90.3	94.0	99.0	100.2	101.5
82.5°	58.2	63.1	66.8	68.1	65.6
85°	30.9	37.1	37.1	34.6	35.9
87.5°	11.1	13.6	14.8	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)