

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: P297004

Luminaire Tested: **D3X-WG-45L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297004
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-45L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4041.0 lumens
Efficiency: N/A
Efficacy: 128.7 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

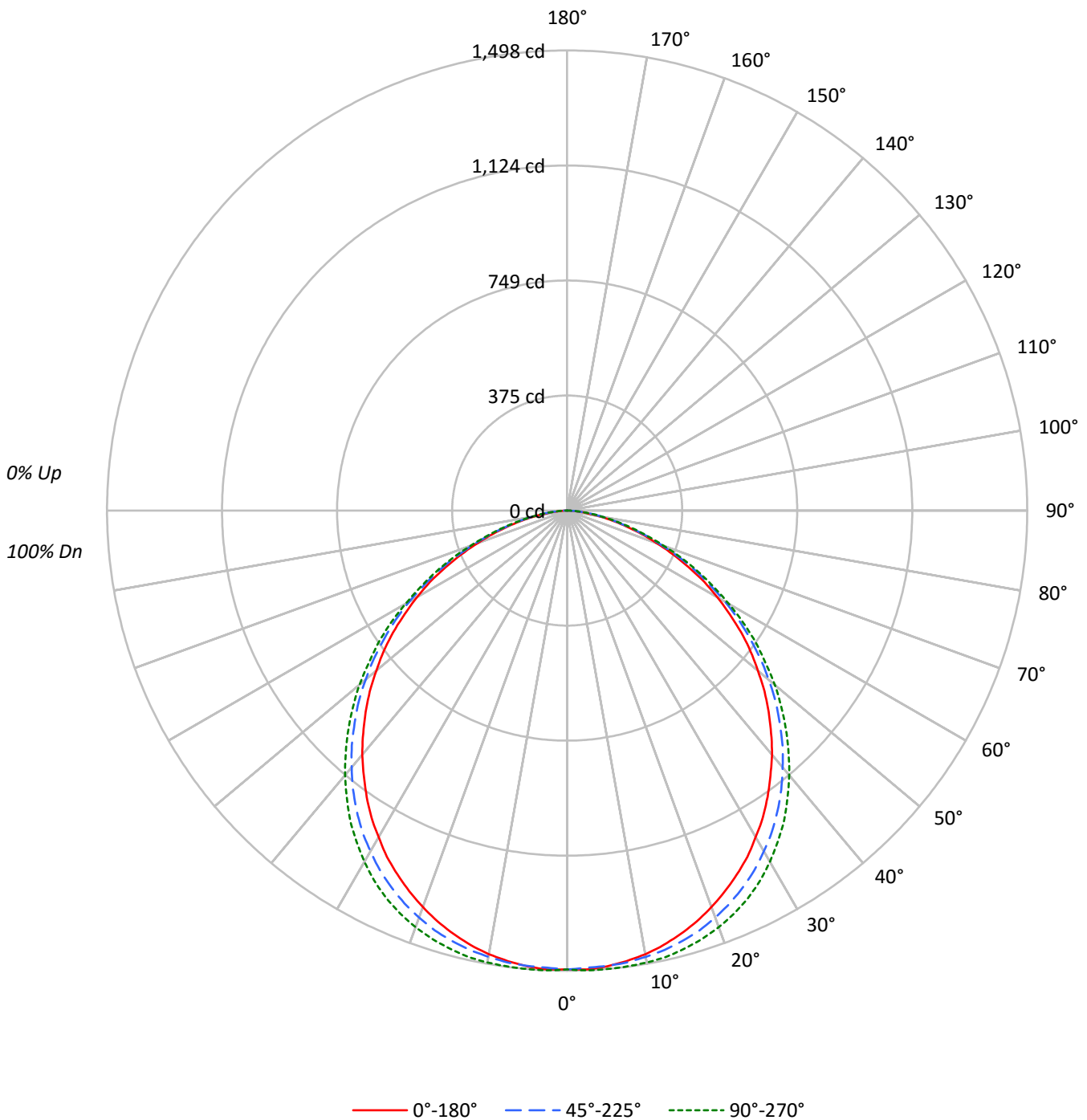
Input Watts (W): 31.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2010	2010	2010
5°	2012	2010	2024
10°	2003	2015	2041
15°	1988	2020	2057
20°	1967	2019	2066
25°	1940	2009	2067
30°	1907	1990	2051
35°	1869	1962	2023
40°	1823	1917	1975
45°	1766	1862	1917
50°	1697	1794	1848
55°	1623	1705	1759
60°	1519	1597	1636
65°	1387	1461	1498
70°	1219	1281	1316
75°	1031	1083	1121
80°	819	897	920
85°	559	670	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.5
10°-20°	409.8	10.1
20°-30°	622.8	15.4
30°-40°	743.1	18.4
40°-50°	750.5	18.6
50°-60°	646.6	16.0
60°-70°	450.8	11.2
70°-80°	223.4	5.5
80°-90°	52.1	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°	1174.5	29.1
0°-40°	1917.6	47.5
0°-60°	3314.7	82.0
0°-90°	4041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1490	1488	1488	1495	1498	141
15°	1427	1434	1450	1469	1476	403
25°	1307	1324	1354	1381	1392	602
35°	1138	1157	1194	1222	1232	711
45°	928	948	978	1002	1008	715
55°	692	706	727	744	750	617
65°	436	444	459	463	470	433
75°	198	201	208	213	216	214
85°	36	43	43	40	42	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.9	1493.9	1493.9	1493.9	1493.9
2.5°	1495.3	1492.4	1489.5	1495.3	1498.2
5°	1489.5	1488.1	1488.1	1495.3	1498.2
7.5°	1479.4	1479.4	1483.7	1493.9	1496.8
10°	1466.4	1469.3	1475.1	1489.5	1493.9
12.5°	1449.0	1454.8	1464.9	1482.3	1488.1
15°	1427.3	1434.5	1450.4	1469.3	1476.5
17.5°	1402.7	1412.8	1433.1	1454.8	1462.0
20°	1373.7	1386.8	1409.9	1434.5	1443.2
22.5°	1341.9	1357.8	1383.9	1409.9	1420.0
25°	1307.1	1324.5	1353.5	1381.0	1392.5
27.5°	1270.9	1288.3	1320.2	1347.7	1359.2
30°	1227.5	1247.8	1281.1	1310.0	1320.2
32.5°	1185.5	1205.8	1240.6	1266.6	1276.7
35°	1137.8	1156.6	1194.2	1221.7	1231.9
37.5°	1087.1	1108.8	1145.0	1169.6	1178.3
40°	1037.9	1056.7	1091.5	1116.1	1124.7
42.5°	982.9	1003.2	1037.9	1059.6	1066.8
45°	927.9	948.1	978.5	1001.7	1007.5
47.5°	871.4	890.2	920.6	939.5	945.3
50°	810.6	828.0	856.9	875.8	883.0
52.5°	752.7	768.6	793.3	809.2	813.5
55°	691.9	706.4	726.7	744.0	749.8
57.5°	626.8	642.7	661.5	676.0	680.3
60°	564.5	577.6	593.5	606.5	608.0
62.5°	503.7	509.5	524.0	535.6	537.0
65°	435.7	444.4	458.9	463.2	470.5
67.5°	373.5	379.3	390.8	396.6	402.4
70°	309.8	314.1	325.7	332.9	334.4
72.5°	254.8	256.2	264.9	270.7	272.1
75°	198.3	201.2	208.4	212.8	215.7
77.5°	150.5	153.4	159.2	162.1	162.1
80°	105.7	110.0	115.8	117.3	118.7
82.5°	68.0	73.8	78.2	79.6	76.7
85°	36.2	43.4	43.4	40.5	42.0
87.5°	13.0	15.9	17.4	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)