

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: P297007

Luminaire Tested: **D3X-WG-45L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297007
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4532.0 lumens
Efficiency: N/A
Efficacy: 136.9 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

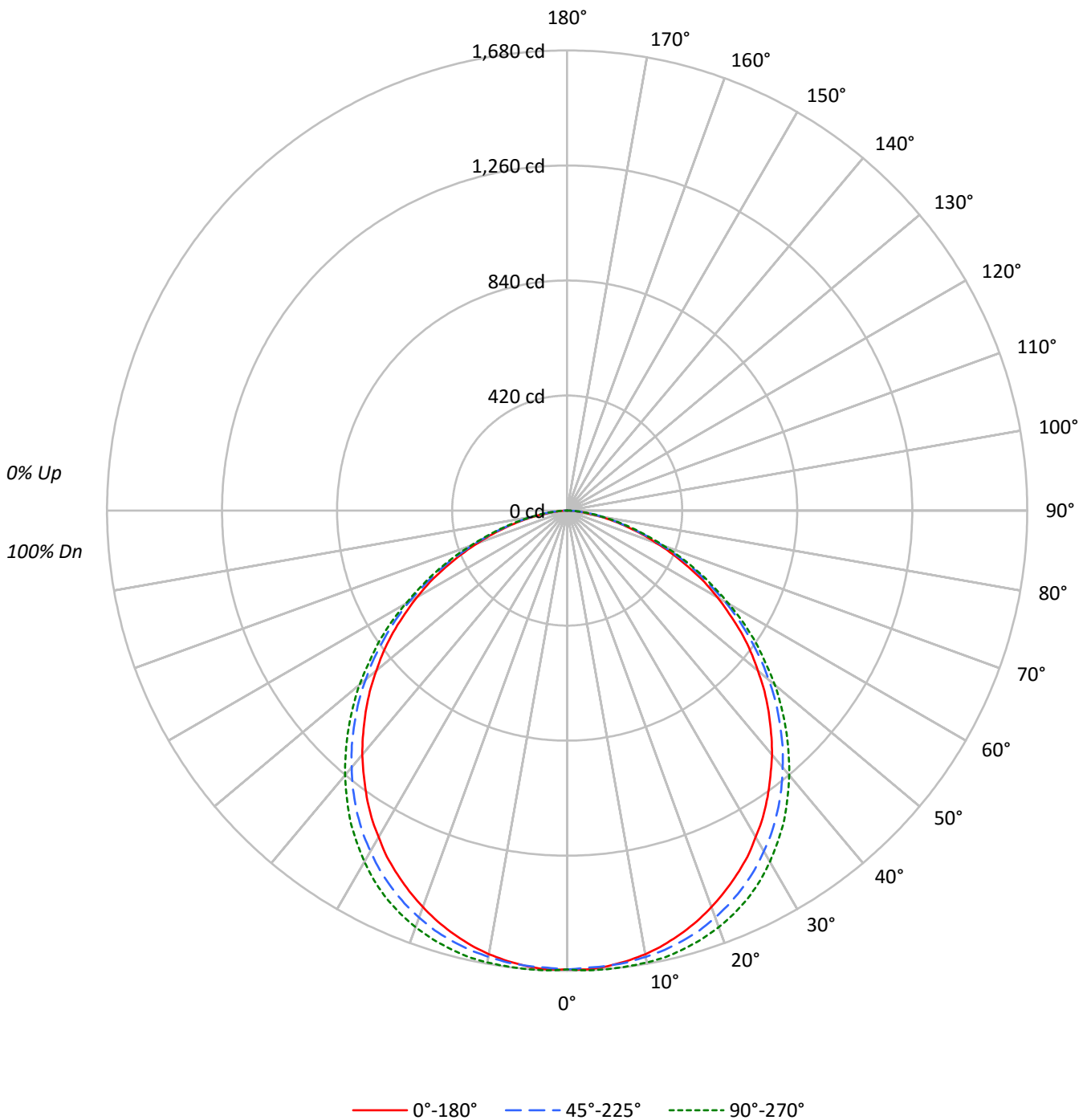
Input Watts (W): 33.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2254	2254	2254
5°	2256	2254	2269
10°	2247	2260	2289
15°	2230	2266	2307
20°	2206	2264	2318
25°	2176	2253	2318
30°	2139	2232	2300
35°	2096	2200	2269
40°	2044	2150	2216
45°	1980	2088	2150
50°	1903	2012	2073
55°	1820	1912	1973
60°	1704	1791	1835
65°	1556	1638	1680
70°	1367	1437	1475
75°	1156	1215	1258
80°	918	1007	1031
85°	627	752	727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.5
10°-20°	459.6	10.1
20°-30°	698.4	15.4
30°-40°	833.4	18.4
40°-50°	841.7	18.6
50°-60°	725.2	16.0
60°-70°	505.5	11.2
70°-80°	250.5	5.5
80°-90°	58.4	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°	1317.2	29.1
0°-40°	2150.6	47.5
0°-60°	3717.5	82.0
0°-90°	4532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1670	1669	1669	1677	1680	159
15°	1601	1609	1627	1648	1656	451
25°	1466	1485	1518	1549	1562	675
35°	1276	1297	1339	1370	1382	798
45°	1041	1063	1097	1123	1130	802
55°	776	792	815	834	841	692
65°	489	498	515	520	528	485
75°	222	226	234	239	242	240
85°	41	49	49	46	47	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1677.0	1673.8	1670.5	1677.0	1680.3
5°	1670.5	1668.9	1668.9	1677.0	1680.3
7.5°	1659.2	1659.2	1664.0	1675.4	1678.6
10°	1644.5	1647.8	1654.3	1670.5	1675.4
12.5°	1625.1	1631.6	1642.9	1662.4	1668.9
15°	1600.7	1608.8	1626.7	1647.8	1655.9
17.5°	1573.1	1584.5	1607.2	1631.6	1639.7
20°	1540.6	1555.3	1581.2	1608.8	1618.6
22.5°	1504.9	1522.8	1552.0	1581.2	1592.6
25°	1466.0	1485.4	1517.9	1548.8	1561.7
27.5°	1425.4	1444.9	1480.6	1511.4	1524.4
30°	1376.7	1399.4	1436.7	1469.2	1480.6
32.5°	1329.6	1352.3	1391.3	1420.5	1431.9
35°	1276.0	1297.1	1339.3	1370.2	1381.5
37.5°	1219.2	1243.6	1284.1	1311.7	1321.5
40°	1164.0	1185.1	1224.1	1251.7	1261.4
42.5°	1102.3	1125.0	1164.0	1188.4	1196.5
45°	1040.6	1063.3	1097.4	1123.4	1129.9
47.5°	977.3	998.4	1032.5	1053.6	1060.1
50°	909.1	928.6	961.1	982.2	990.3
52.5°	844.2	862.0	889.6	907.5	912.4
55°	776.0	792.2	815.0	834.4	840.9
57.5°	702.9	720.8	741.9	758.1	763.0
60°	633.1	647.8	665.6	680.2	681.8
62.5°	565.0	571.4	587.7	600.7	602.3
65°	488.7	498.4	514.6	519.5	527.6
67.5°	418.8	425.3	438.3	444.8	451.3
70°	347.4	352.3	365.3	373.4	375.0
72.5°	285.7	287.3	297.1	303.6	305.2
75°	222.4	225.7	233.8	238.6	241.9
77.5°	168.8	172.1	178.6	181.8	181.8
80°	118.5	123.4	129.9	131.5	133.1
82.5°	76.3	82.8	87.7	89.3	86.0
85°	40.6	48.7	48.7	45.5	47.1
87.5°	14.6	17.9	19.5	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)