

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: P296870

Luminaire Tested: **D3X-WD-50L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-50L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

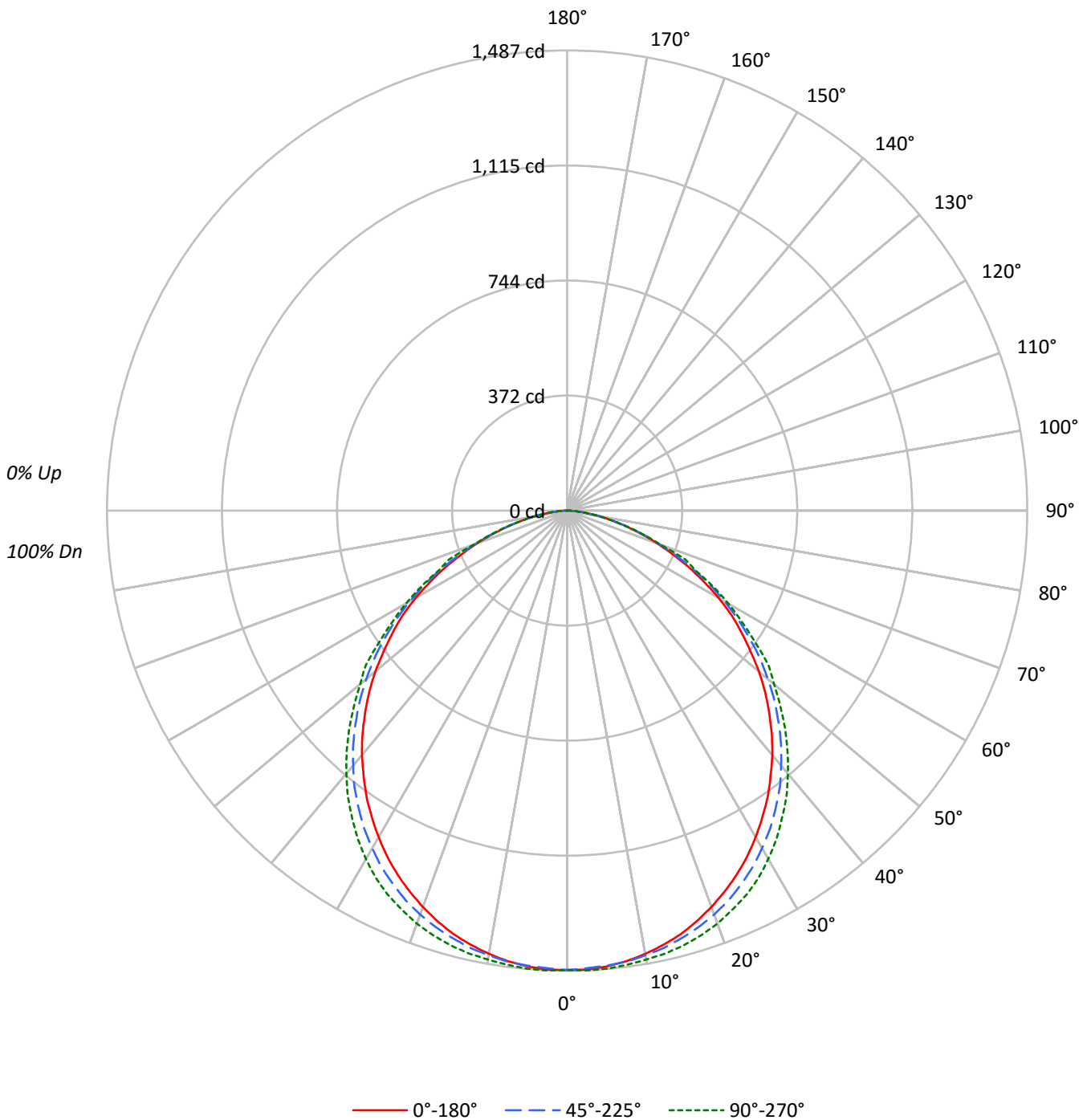
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
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	28		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1997	1997	1997
5°	1997	1993	2007
10°	1987	1993	2012
15°	1974	1992	2026
20°	1952	1988	2033
25°	1926	1977	2034
30°	1893	1958	2020
35°	1856	1929	1990
40°	1812	1890	1950
45°	1756	1838	1895
50°	1693	1773	1827
55°	1616	1689	1739
60°	1523	1580	1619
65°	1383	1428	1456
70°	1214	1242	1259
75°	1025	1040	1048
80°	819	831	808
85°	551	573	551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.5
10°-20°	404.6	10.2
20°-30°	613.8	15.4
30°-40°	732.8	18.4
40°-50°	741.9	18.6
50°-60°	641.3	16.1
60°-70°	444.5	11.2
70°-80°	215.1	5.4
80°-90°	47.3	1.2
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°	1159.1	29.1
0°-40°	1891.9	47.5
0°-60°	3275.2	82.2
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1479	1477	1476	1483	1486	140
15°	1417	1420	1430	1447	1454	399
25°	1297	1306	1332	1359	1370	597
35°	1130	1140	1174	1204	1212	706
45°	923	936	966	990	996	712
55°	689	696	720	750	742	615
65°	434	439	449	456	457	430
75°	197	199	200	199	202	212
85°	36	39	37	36	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.5	1484.5	1484.5	1484.5	1484.5
2.5°	1484.5	1483.0	1480.2	1484.5	1487.3
5°	1478.7	1477.3	1475.9	1483.0	1485.9
7.5°	1468.7	1468.7	1470.2	1477.3	1480.2
10°	1454.5	1455.9	1458.7	1470.2	1473.0
12.5°	1437.3	1440.2	1447.3	1460.2	1465.9
15°	1417.3	1420.2	1430.2	1447.3	1454.5
17.5°	1391.6	1397.3	1411.6	1431.6	1438.7
20°	1363.0	1370.2	1388.7	1411.6	1420.2
22.5°	1331.6	1338.7	1363.0	1387.3	1395.9
25°	1297.3	1305.9	1331.6	1358.7	1370.2
27.5°	1260.1	1270.2	1298.7	1327.3	1338.7
30°	1218.7	1230.1	1260.1	1290.2	1300.2
32.5°	1174.4	1185.9	1220.1	1248.7	1258.7
35°	1130.1	1140.1	1174.4	1204.4	1211.6
37.5°	1080.1	1091.6	1128.7	1154.4	1164.4
40°	1031.6	1043.0	1075.8	1101.6	1110.1
42.5°	978.7	990.1	1023.0	1047.3	1054.4
45°	923.0	935.8	965.8	990.1	995.8
47.5°	867.2	877.2	908.7	930.1	934.4
50°	808.7	818.7	847.2	868.7	873.0
52.5°	747.2	762.9	785.8	801.5	820.1
55°	688.7	695.8	720.1	750.1	741.5
57.5°	630.1	634.4	654.4	667.2	670.1
60°	565.8	571.5	587.2	594.4	601.5
62.5°	498.6	502.9	521.5	528.6	531.5
65°	434.3	438.6	448.6	455.8	457.2
67.5°	368.6	372.9	381.5	387.2	412.9
70°	308.6	311.5	315.8	327.2	320.0
72.5°	251.5	252.9	257.2	257.2	258.6
75°	197.2	198.6	200.0	198.6	201.5
77.5°	147.2	150.0	151.4	150.0	148.6
80°	105.7	108.6	107.2	104.3	104.3
82.5°	68.6	70.0	68.6	67.2	67.2
85°	35.7	38.6	37.1	35.7	35.7
87.5°	12.9	14.3	15.7	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)