

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: P297161

Luminaire Tested: **D3X-WG-60L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297161
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-60L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5200.0 lumens
Efficiency: N/A
Efficacy: 117.1 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

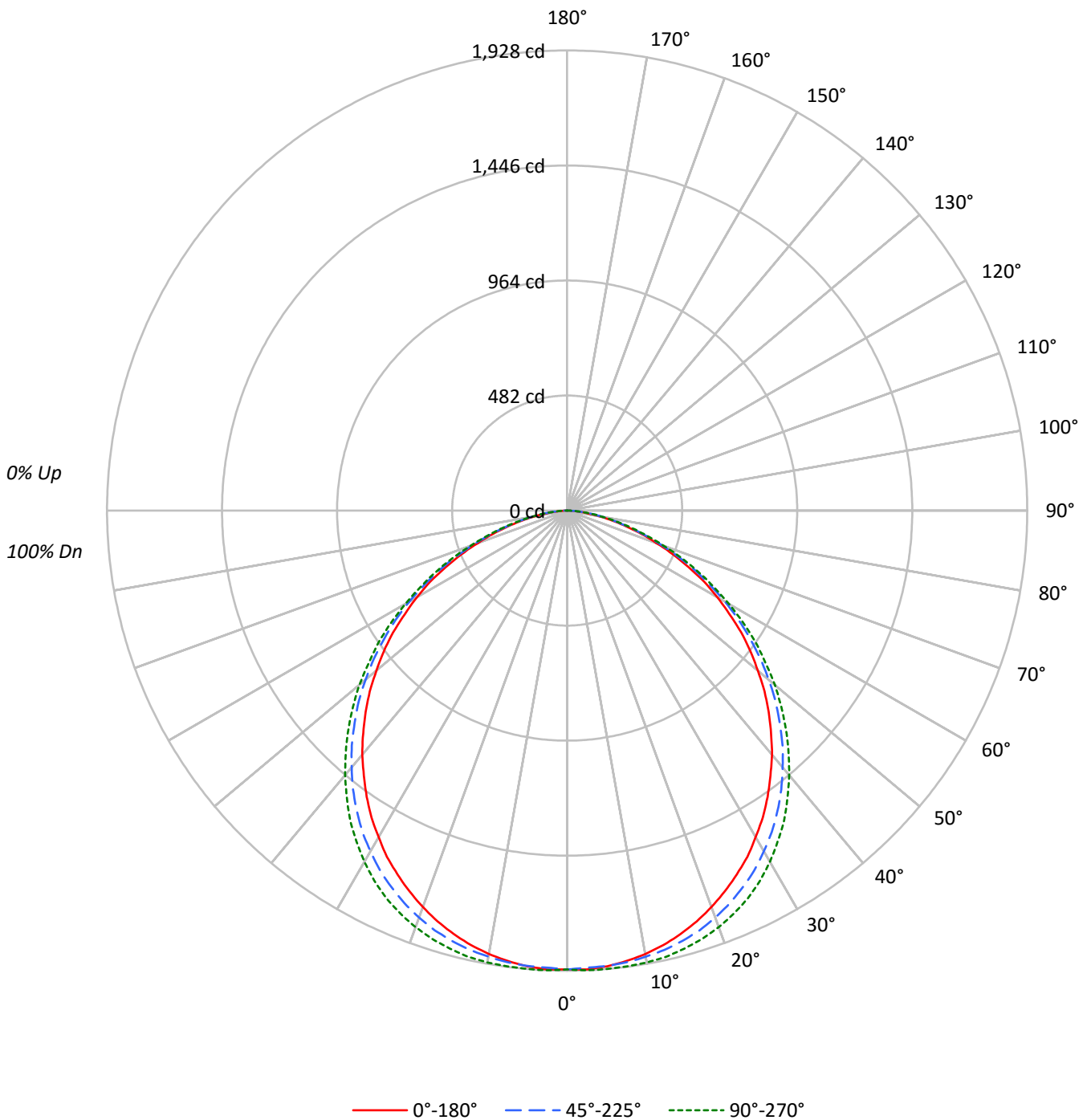
Input Watts (W): 44.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2586	2586	2586
5°	2589	2586	2604
10°	2578	2593	2626
15°	2558	2600	2647
20°	2531	2598	2659
25°	2497	2586	2660
30°	2454	2561	2639
35°	2405	2524	2604
40°	2346	2467	2542
45°	2272	2396	2467
50°	2183	2308	2379
55°	2089	2194	2263
60°	1955	2055	2105
65°	1785	1880	1927
70°	1568	1649	1693
75°	1327	1394	1443
80°	1054	1155	1183
85°	719	863	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	3.5
10°-20°	527.3	10.1
20°-30°	801.4	15.4
30°-40°	956.2	18.4
40°-50°	965.8	18.6
50°-60°	832.1	16.0
60°-70°	580.1	11.2
70°-80°	287.4	5.5
80°-90°	67.0	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°	1511.4	29.1
0°-40°	2467.6	47.5
0°-60°	4265.5	82.0
0°-90°	5200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1917	1915	1915	1924	1928	182
15°	1837	1846	1866	1891	1900	518
25°	1682	1704	1742	1777	1792	775
35°	1464	1488	1537	1572	1585	915
45°	1194	1220	1259	1289	1296	920
55°	890	909	935	957	965	794
65°	561	572	590	596	605	557
75°	255	259	268	274	278	275
85°	47	56	56	52	54	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.3	1922.3	1922.3	1922.3	1922.3
2.5°	1924.2	1920.5	1916.7	1924.2	1927.9
5°	1916.7	1914.9	1914.9	1924.2	1927.9
7.5°	1903.7	1903.7	1909.3	1922.3	1926.1
10°	1886.9	1890.7	1898.1	1916.7	1922.3
12.5°	1864.6	1872.0	1885.1	1907.4	1914.9
15°	1836.6	1846.0	1866.4	1890.7	1900.0
17.5°	1805.0	1818.0	1844.1	1872.0	1881.3
20°	1767.7	1784.5	1814.3	1846.0	1857.1
22.5°	1726.7	1747.2	1780.8	1814.3	1827.3
25°	1682.0	1704.4	1741.6	1777.0	1791.9
27.5°	1635.5	1657.8	1698.8	1734.2	1749.1
30°	1579.6	1605.7	1648.5	1685.8	1698.8
32.5°	1525.6	1551.6	1596.4	1629.9	1642.9
35°	1464.1	1488.3	1536.7	1572.1	1585.2
37.5°	1398.9	1426.8	1473.4	1505.1	1516.3
40°	1335.6	1359.8	1404.5	1436.2	1447.3
42.5°	1264.8	1290.9	1335.6	1363.5	1372.8
45°	1194.0	1220.1	1259.2	1289.0	1296.5
47.5°	1121.4	1145.6	1184.7	1208.9	1216.4
50°	1043.1	1065.5	1102.7	1126.9	1136.3
52.5°	968.6	989.1	1020.8	1041.3	1046.9
55°	890.4	909.0	935.1	957.4	964.9
57.5°	806.6	827.0	851.3	869.9	875.5
60°	726.5	743.2	763.7	780.5	782.3
62.5°	648.2	655.7	674.3	689.2	691.1
65°	560.7	571.9	590.5	596.1	605.4
67.5°	480.6	488.0	502.9	510.4	517.8
70°	398.6	404.2	419.1	428.4	430.3
72.5°	327.8	329.7	340.9	348.3	350.2
75°	255.2	258.9	268.2	273.8	277.5
77.5°	193.7	197.4	204.9	208.6	208.6
80°	136.0	141.6	149.0	150.9	152.7
82.5°	87.5	95.0	100.6	102.4	98.7
85°	46.6	55.9	55.9	52.2	54.0
87.5°	16.8	20.5	22.4	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)