

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: P297163

Luminaire Tested: **D3X-WG-60L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297163
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-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5291.0 lumens
Efficiency: N/A
Efficacy: 117.3 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

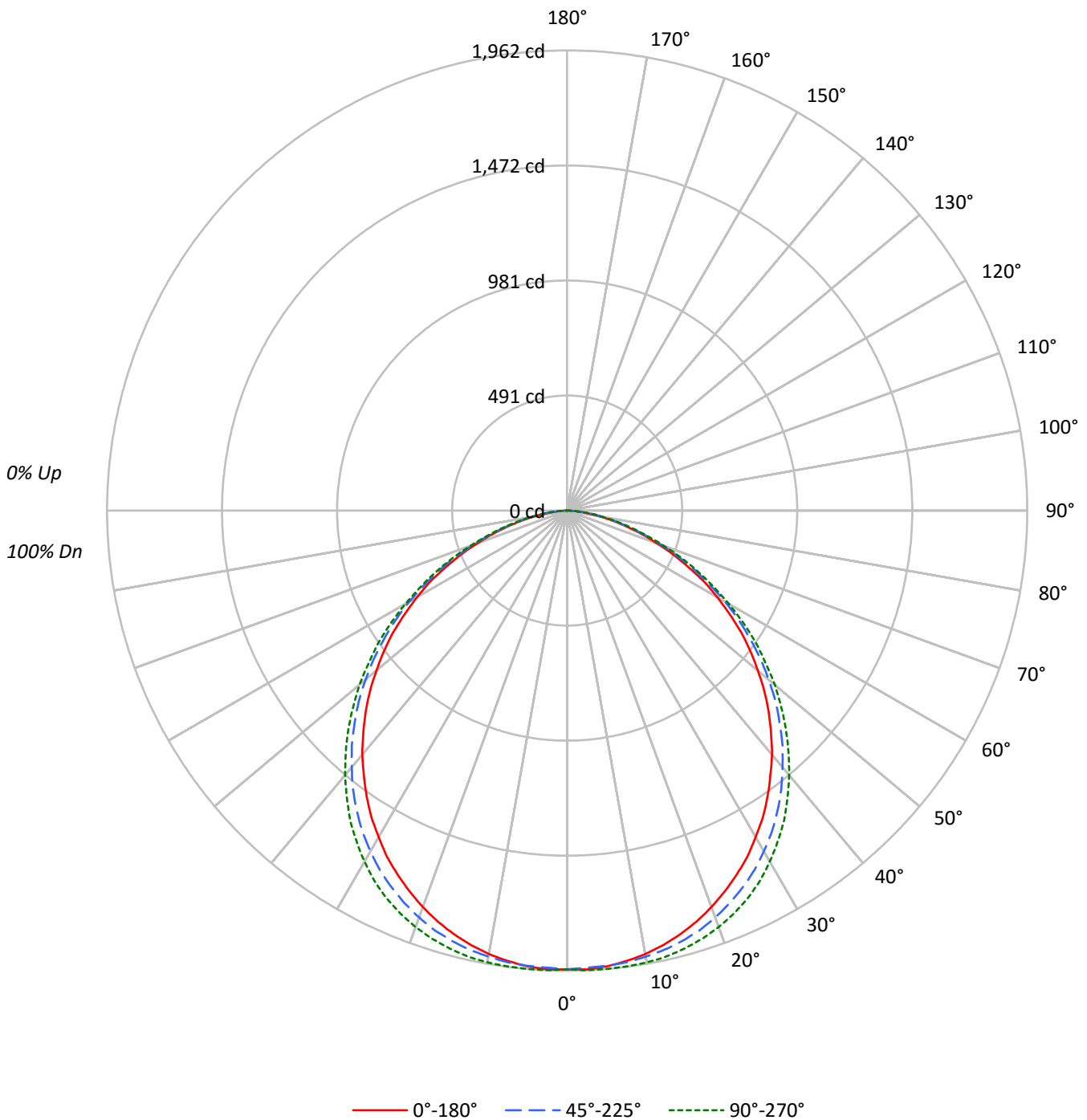
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2632	2632	2632
5°	2634	2632	2650
10°	2623	2639	2672
15°	2603	2645	2693
20°	2575	2643	2706
25°	2541	2631	2707
30°	2497	2606	2685
35°	2447	2568	2649
40°	2387	2510	2587
45°	2312	2438	2510
50°	2222	2349	2420
55°	2125	2232	2303
60°	1989	2091	2142
65°	1816	1913	1961
70°	1596	1677	1722
75°	1350	1419	1468
80°	1072	1175	1204
85°	732	878	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	3.5
10°-20°	536.6	10.1
20°-30°	815.4	15.4
30°-40°	973.0	18.4
40°-50°	982.7	18.6
50°-60°	846.6	16.0
60°-70°	590.2	11.2
70°-80°	292.5	5.5
80°-90°	68.2	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°	1537.8	29.1
0°-40°	2510.8	47.5
0°-60°	4340.1	82.0
0°-90°	5291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1950	1948	1948	1958	1962	185
15°	1869	1878	1899	1924	1933	527
25°	1712	1734	1772	1808	1823	788
35°	1490	1514	1564	1600	1613	931
45°	1215	1241	1281	1312	1319	936
55°	906	925	952	974	982	807
65°	570	582	601	606	616	567
75°	260	263	273	279	282	280
85°	47	57	57	53	55	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.0	1956.0	1956.0	1956.0	1956.0
2.5°	1957.9	1954.1	1950.3	1957.9	1961.7
5°	1950.3	1948.4	1948.4	1957.9	1961.7
7.5°	1937.0	1937.0	1942.7	1956.0	1959.8
10°	1920.0	1923.8	1931.3	1950.3	1956.0
12.5°	1897.2	1904.8	1918.1	1940.8	1948.4
15°	1868.8	1878.3	1899.1	1923.8	1933.2
17.5°	1836.6	1849.8	1876.4	1904.8	1914.3
20°	1798.7	1815.7	1846.0	1878.3	1889.6
22.5°	1757.0	1777.8	1811.9	1846.0	1859.3
25°	1711.5	1734.2	1772.1	1808.1	1823.3
27.5°	1664.1	1686.8	1728.5	1764.5	1779.7
30°	1607.2	1633.8	1677.4	1715.3	1728.5
32.5°	1552.3	1578.8	1624.3	1658.4	1671.7
35°	1489.7	1514.4	1563.6	1599.7	1612.9
37.5°	1423.4	1451.8	1499.2	1531.4	1542.8
40°	1358.9	1383.6	1429.1	1461.3	1472.7
42.5°	1286.9	1313.5	1358.9	1387.4	1396.9
45°	1214.9	1241.4	1281.2	1311.6	1319.1
47.5°	1141.0	1165.6	1205.4	1230.1	1237.6
50°	1061.4	1084.1	1122.0	1146.7	1156.1
52.5°	985.6	1006.4	1038.6	1059.5	1065.2
55°	906.0	924.9	951.5	974.2	981.8
57.5°	820.7	841.5	866.2	885.1	890.8
60°	739.2	756.2	777.1	794.1	796.0
62.5°	659.6	667.2	686.1	701.3	703.2
65°	570.5	581.9	600.8	606.5	616.0
67.5°	489.0	496.6	511.7	519.3	526.9
70°	405.6	411.3	426.4	435.9	437.8
72.5°	333.6	335.5	346.8	354.4	356.3
75°	259.7	263.4	272.9	278.6	282.4
77.5°	197.1	200.9	208.5	212.3	212.3
80°	138.4	144.0	151.6	153.5	155.4
82.5°	89.1	96.7	102.3	104.2	100.5
85°	47.4	56.9	56.9	53.1	55.0
87.5°	17.1	20.8	22.7	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)