

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: P297166

Luminaire Tested: **D3X-WG-67L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297166
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-67L93050-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: 5781.0 lumens
Efficiency: N/A
Efficacy: 115.9 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

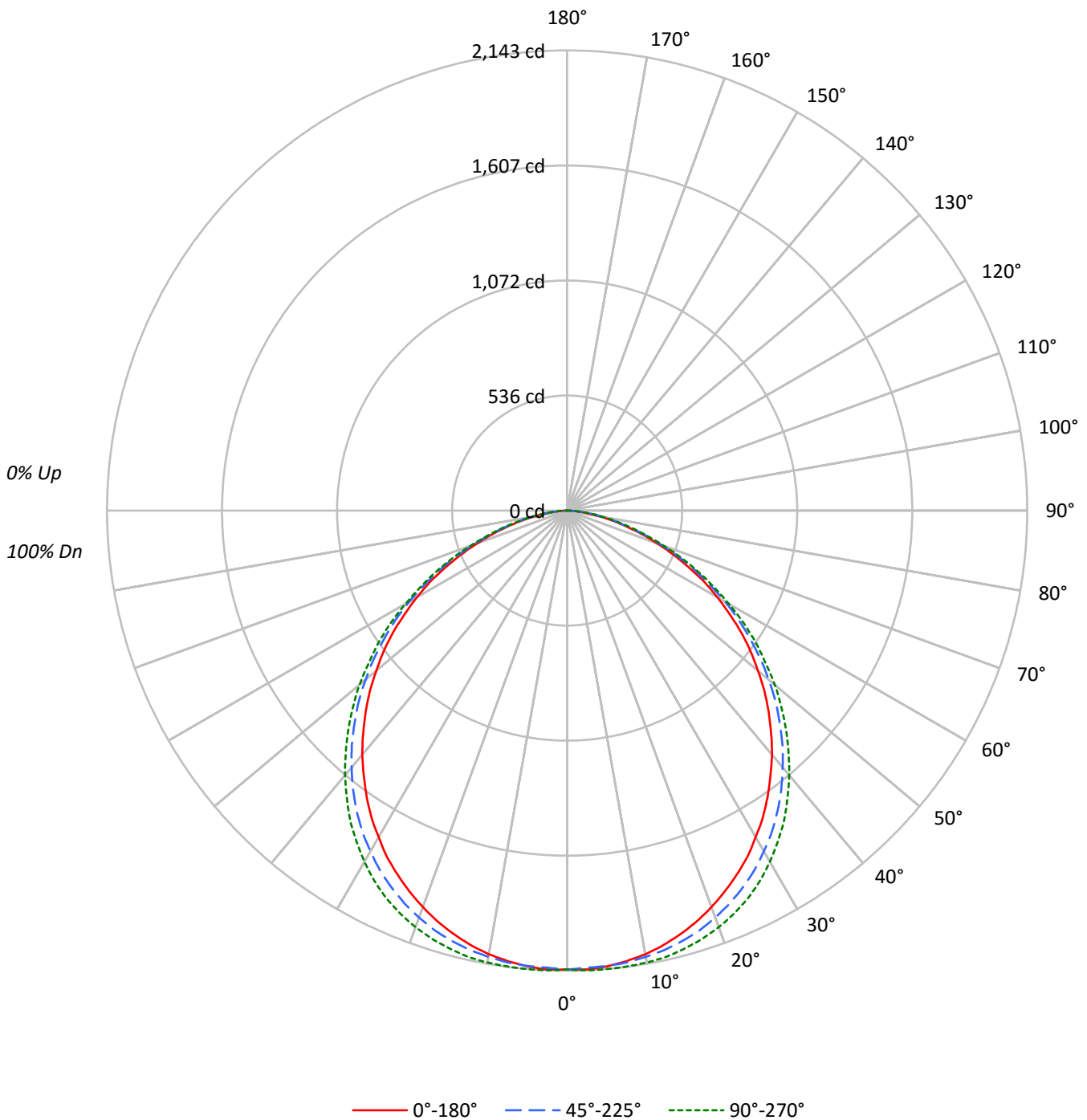
Input Watts (W): 49.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2875	2875	2875
5°	2878	2875	2895
10°	2866	2883	2920
15°	2844	2890	2942
20°	2814	2888	2956
25°	2776	2874	2958
30°	2728	2847	2934
35°	2674	2806	2895
40°	2608	2742	2826
45°	2526	2664	2743
50°	2427	2566	2644
55°	2322	2439	2516
60°	2173	2285	2341
65°	1984	2090	2143
70°	1744	1833	1882
75°	1475	1550	1604
80°	1172	1284	1316
85°	800	959	928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	3.5
10°-20°	586.2	10.1
20°-30°	890.9	15.4
30°-40°	1063.1	18.4
40°-50°	1073.7	18.6
50°-60°	925.1	16.0
60°-70°	644.9	11.2
70°-80°	319.6	5.5
80°-90°	74.5	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°	1680.2	29.1
0°-40°	2743.3	47.5
0°-60°	4742.1	82.0
0°-90°	5781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2131	2129	2129	2139	2143	202
15°	2042	2052	2075	2102	2112	576
25°	1870	1895	1936	1976	1992	861
35°	1628	1655	1708	1748	1762	1017
45°	1327	1356	1400	1433	1441	1023
55°	990	1011	1040	1064	1073	882
65°	623	636	656	663	673	619
75°	284	288	298	304	309	306
85°	52	62	62	58	60	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2137.1	2137.1	2137.1	2137.1	2137.1
2.5°	2139.2	2135.0	2130.9	2139.2	2143.3
5°	2130.9	2128.8	2128.8	2139.2	2143.3
7.5°	2116.4	2116.4	2122.6	2137.1	2141.3
10°	2097.8	2101.9	2110.2	2130.9	2137.1
12.5°	2072.9	2081.2	2095.7	2120.5	2128.8
15°	2041.9	2052.2	2075.0	2101.9	2112.3
17.5°	2006.6	2021.1	2050.1	2081.2	2091.6
20°	1965.2	1983.9	2017.0	2052.2	2064.6
22.5°	1919.7	1942.5	1979.7	2017.0	2031.5
25°	1870.0	1894.8	1936.2	1975.6	1992.2
27.5°	1818.2	1843.1	1888.6	1928.0	1944.5
30°	1756.1	1785.1	1832.7	1874.1	1888.6
32.5°	1696.0	1725.0	1774.7	1812.0	1826.5
35°	1627.7	1654.6	1708.4	1747.8	1762.3
37.5°	1555.2	1586.3	1638.0	1673.2	1685.7
40°	1484.8	1511.7	1561.4	1596.6	1609.0
42.5°	1406.1	1435.1	1484.8	1515.9	1526.2
45°	1327.4	1356.4	1399.9	1433.0	1441.3
47.5°	1246.6	1273.6	1317.1	1344.0	1352.3
50°	1159.7	1184.5	1225.9	1252.9	1263.2
52.5°	1076.8	1099.6	1134.8	1157.6	1163.8
55°	989.9	1010.6	1039.6	1064.4	1072.7
57.5°	896.7	919.5	946.4	967.1	973.3
60°	807.6	826.3	849.0	867.7	869.8
62.5°	720.7	728.9	749.6	766.2	768.3
65°	623.3	635.7	656.5	662.7	673.0
67.5°	534.3	542.6	559.1	567.4	575.7
70°	443.2	449.4	465.9	476.3	478.4
72.5°	364.5	366.5	379.0	387.2	389.3
75°	283.7	287.8	298.2	304.4	308.6
77.5°	215.4	219.5	227.8	231.9	231.9
80°	151.2	157.4	165.7	167.7	169.8
82.5°	97.3	105.6	111.8	113.9	109.8
85°	51.8	62.1	62.1	58.0	60.1
87.5°	18.6	22.8	24.9	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)