

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: P297102

Luminaire Tested: **D3X-WG-67L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297102
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-67L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5779.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

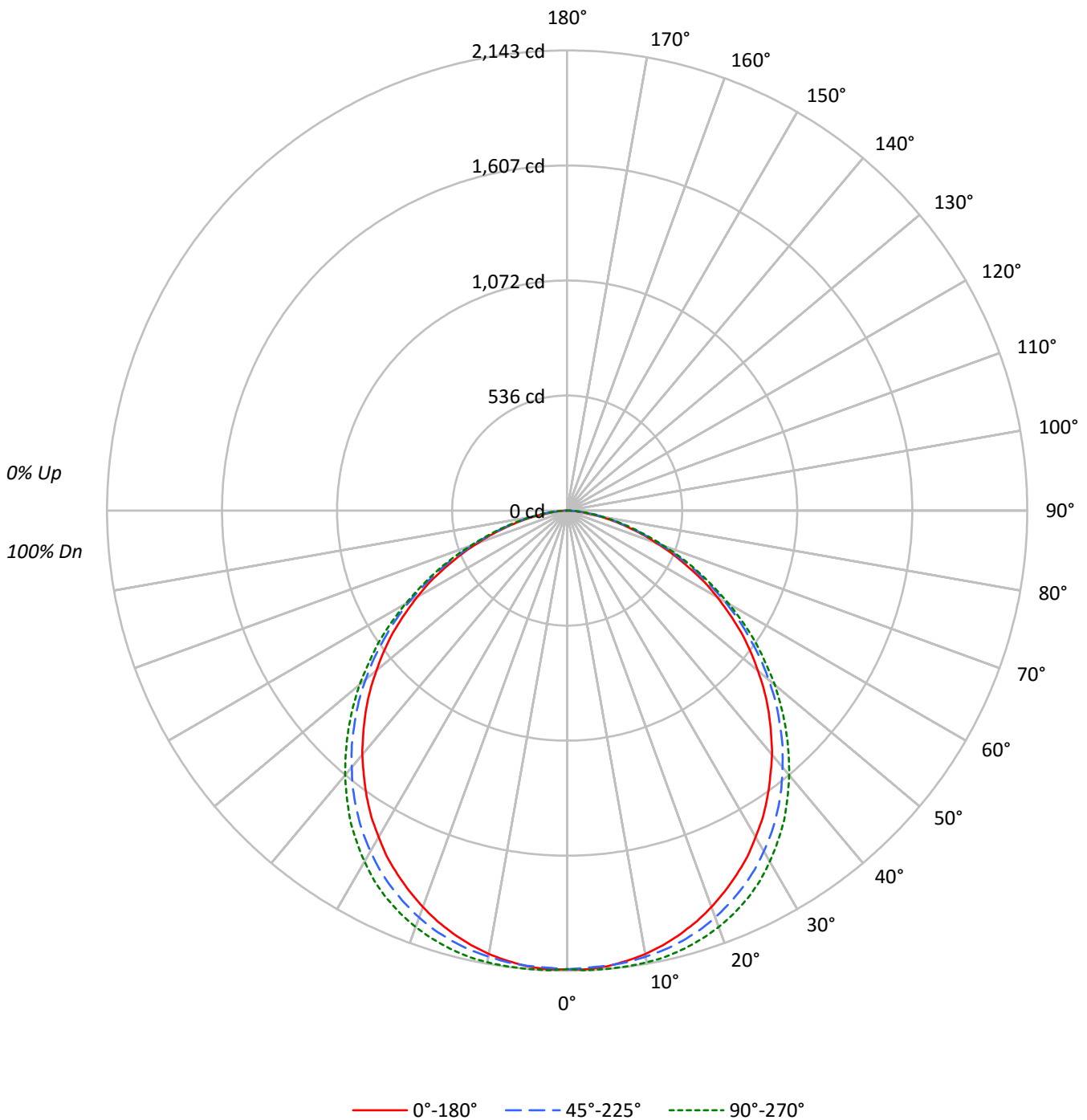
Input Watts (W): 48.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2877	2874	2894
10°	2865	2882	2919
15°	2843	2889	2941
20°	2813	2887	2955
25°	2775	2874	2957
30°	2727	2846	2933
35°	2673	2805	2894
40°	2607	2742	2825
45°	2525	2663	2742
50°	2427	2565	2643
55°	2321	2438	2515
60°	2173	2284	2340
65°	1984	2089	2142
70°	1743	1832	1881
75°	1474	1550	1603
80°	1171	1283	1316
85°	800	959	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	3.5
10°-20°	586.0	10.1
20°-30°	890.6	15.4
30°-40°	1062.7	18.4
40°-50°	1073.3	18.6
50°-60°	924.7	16.0
60°-70°	644.6	11.2
70°-80°	319.5	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°	1679.7	29.1
0°-40°	2742.4	47.5
0°-60°	4740.4	82.0
0°-90°	5779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2130	2128	2128	2138	2143	202
15°	2041	2052	2074	2101	2112	576
25°	1869	1894	1936	1975	1992	861
35°	1627	1654	1708	1747	1762	1017
45°	1327	1356	1399	1432	1441	1023
55°	990	1010	1039	1064	1072	882
65°	623	636	656	662	673	619
75°	284	288	298	304	308	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°	2136.4	2136.4	2136.4	2136.4	2136.4
2.5°	2138.4	2134.3	2130.2	2138.4	2142.6
5°	2130.2	2128.1	2128.1	2138.4	2142.6
7.5°	2115.7	2115.7	2121.9	2136.4	2140.5
10°	2097.0	2101.2	2109.5	2130.2	2136.4
12.5°	2072.2	2080.5	2095.0	2119.8	2128.1
15°	2041.1	2051.5	2074.3	2101.2	2111.5
17.5°	2006.0	2020.4	2049.4	2080.5	2090.8
20°	1964.6	1983.2	2016.3	2051.5	2063.9
22.5°	1919.0	1941.8	1979.0	2016.3	2030.8
25°	1869.3	1894.2	1935.6	1974.9	1991.5
27.5°	1817.6	1842.4	1888.0	1927.3	1943.9
30°	1755.5	1784.5	1832.1	1873.5	1888.0
32.5°	1695.4	1724.4	1774.1	1811.4	1825.9
35°	1627.1	1654.0	1707.9	1747.2	1761.7
37.5°	1554.7	1585.7	1637.5	1672.7	1685.1
40°	1484.3	1511.2	1560.9	1596.1	1608.5
42.5°	1405.6	1434.6	1484.3	1515.3	1525.7
45°	1327.0	1355.9	1399.4	1432.5	1440.8
47.5°	1246.2	1273.1	1316.6	1343.5	1351.8
50°	1159.3	1184.1	1225.5	1252.4	1262.8
52.5°	1076.5	1099.2	1134.4	1157.2	1163.4
55°	989.5	1010.2	1039.2	1064.0	1072.3
57.5°	896.4	919.1	946.0	966.8	973.0
60°	807.4	826.0	848.8	867.4	869.5
62.5°	720.4	728.7	749.4	765.9	768.0
65°	623.1	635.5	656.2	662.4	672.8
67.5°	534.1	542.4	558.9	567.2	575.5
70°	443.0	449.2	465.8	476.1	478.2
72.5°	364.3	366.4	378.8	387.1	389.2
75°	283.6	287.7	298.1	304.3	308.4
77.5°	215.3	219.4	227.7	231.9	231.9
80°	151.1	157.3	165.6	167.7	169.8
82.5°	97.3	105.6	111.8	113.9	109.7
85°	51.8	62.1	62.1	58.0	60.0
87.5°	18.6	22.8	24.8	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)