

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: P297168

Luminaire Tested: **D3X-WG-67L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297168
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-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: 5882.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

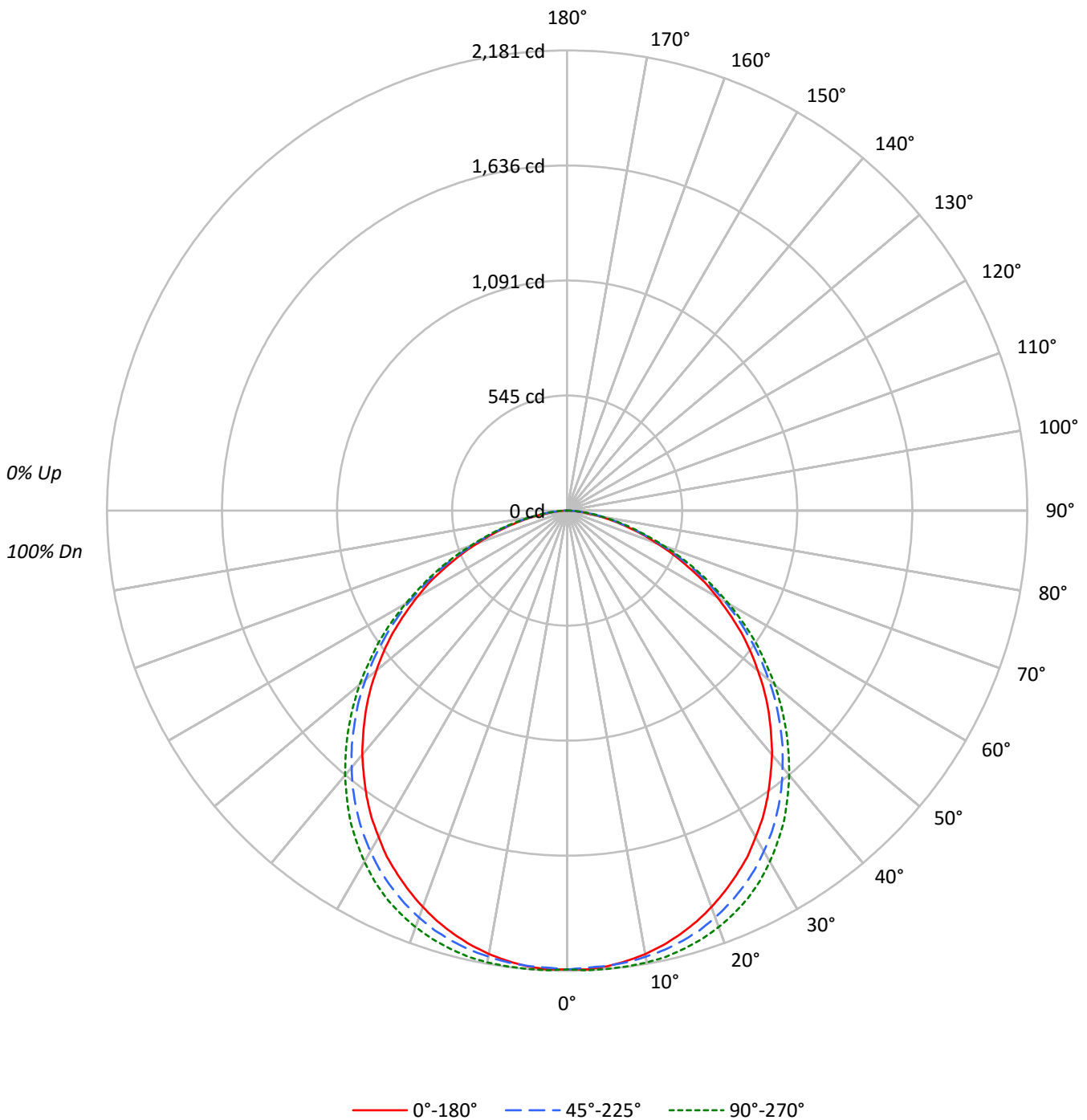
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2926	2926	2926
5°	2928	2925	2945
10°	2916	2933	2971
15°	2894	2941	2994
20°	2863	2938	3008
25°	2825	2925	3009
30°	2776	2897	2985
35°	2720	2855	2945
40°	2653	2790	2876
45°	2570	2710	2790
50°	2470	2611	2690
55°	2363	2481	2560
60°	2211	2325	2382
65°	2019	2126	2180
70°	1774	1865	1915
75°	1501	1577	1632
80°	1192	1306	1339
85°	814	976	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	3.5
10°-20°	596.5	10.1
20°-30°	906.5	15.4
30°-40°	1081.7	18.4
40°-50°	1092.4	18.6
50°-60°	941.2	16.0
60°-70°	656.1	11.2
70°-80°	325.1	5.5
80°-90°	75.8	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°	1709.6	29.1
0°-40°	2791.2	47.5
0°-60°	4824.9	82.0
0°-90°	5882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2174	2174	2174	2174	2174	
5°	2168	2166	2166	2177	2181	206
15°	2078	2088	2111	2139	2149	586
25°	1903	1928	1970	2010	2027	876
35°	1656	1684	1738	1778	1793	1035
45°	1351	1380	1424	1458	1466	1041
55°	1007	1028	1058	1083	1091	898
65°	634	647	668	674	685	630
75°	289	293	303	310	314	311
85°	53	63	63	59	61	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2174.5	2174.5	2174.5	2174.5	2174.5
2.5°	2176.6	2172.3	2168.1	2176.6	2180.8
5°	2168.1	2166.0	2166.0	2176.6	2180.8
7.5°	2153.4	2153.4	2159.7	2174.5	2178.7
10°	2134.4	2138.6	2147.1	2168.1	2174.5
12.5°	2109.1	2117.6	2132.3	2157.6	2166.0
15°	2077.5	2088.1	2111.2	2138.6	2149.2
17.5°	2041.7	2056.5	2086.0	2117.6	2128.1
20°	1999.6	2018.5	2052.2	2088.1	2100.7
22.5°	1953.2	1976.4	2014.3	2052.2	2067.0
25°	1902.6	1927.9	1970.1	2010.1	2027.0
27.5°	1850.0	1875.3	1921.6	1961.6	1978.5
30°	1786.8	1816.3	1864.7	1906.9	1921.6
32.5°	1725.7	1755.2	1805.7	1843.6	1858.4
35°	1656.1	1683.5	1738.3	1778.3	1793.1
37.5°	1582.4	1614.0	1666.7	1702.5	1715.1
40°	1510.7	1538.1	1588.7	1624.5	1637.2
42.5°	1430.7	1460.2	1510.7	1542.3	1552.9
45°	1350.6	1380.1	1424.3	1458.1	1466.5
47.5°	1268.4	1295.8	1340.1	1367.5	1375.9
50°	1179.9	1205.2	1247.4	1274.8	1285.3
52.5°	1095.7	1118.8	1154.7	1177.8	1184.1
55°	1007.2	1028.2	1057.7	1083.0	1091.4
57.5°	912.3	935.5	962.9	984.0	990.3
60°	821.7	840.7	863.9	882.8	885.0
62.5°	733.2	741.7	762.7	779.6	781.7
65°	634.2	646.9	667.9	674.2	684.8
67.5°	543.6	552.0	568.9	577.3	585.8
70°	450.9	457.2	474.1	484.6	486.7
72.5°	370.8	372.9	385.6	394.0	396.1
75°	288.7	292.9	303.4	309.7	313.9
77.5°	219.1	223.3	231.8	236.0	236.0
80°	153.8	160.1	168.6	170.7	172.8
82.5°	99.0	107.5	113.8	115.9	111.7
85°	52.7	63.2	63.2	59.0	61.1
87.5°	19.0	23.2	25.3	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)