

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: P297174

Luminaire Tested: **D3X-WG-80L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297174
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-80L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5899.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

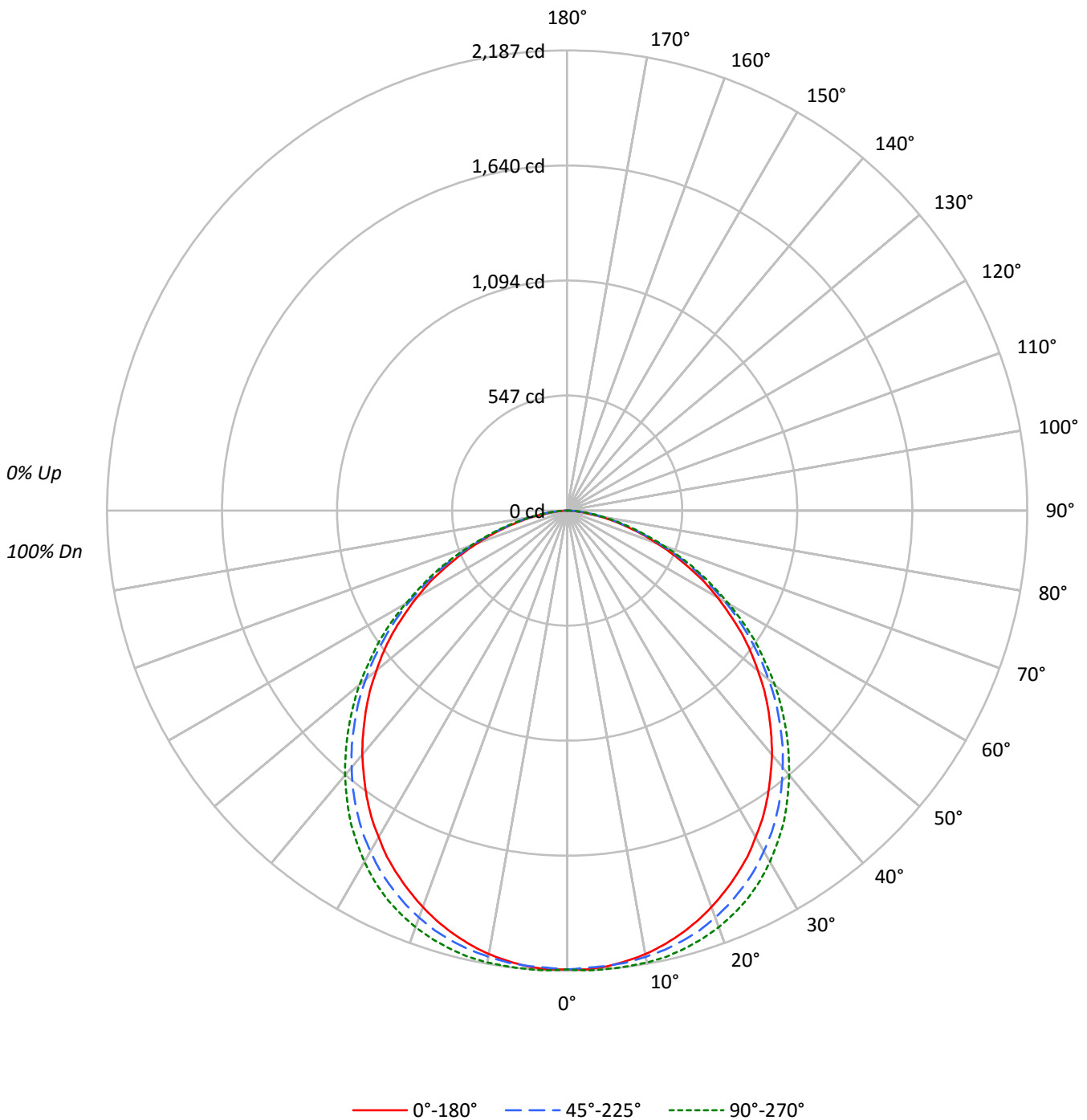
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2934	2934	2934
5°	2937	2934	2954
10°	2925	2942	2979
15°	2902	2949	3002
20°	2871	2947	3017
25°	2833	2933	3018
30°	2784	2905	2994
35°	2728	2863	2954
40°	2661	2798	2884
45°	2577	2718	2798
50°	2477	2619	2698
55°	2369	2488	2568
60°	2218	2331	2388
65°	2025	2133	2187
70°	1779	1871	1920
75°	1505	1582	1637
80°	1196	1309	1343
85°	815	979	946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	3.5
10°-20°	598.2	10.1
20°-30°	909.1	15.4
30°-40°	1084.8	18.4
40°-50°	1095.6	18.6
50°-60°	943.9	16.0
60°-70°	658.0	11.2
70°-80°	326.1	5.5
80°-90°	76.0	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°	1714.5	29.1
0°-40°	2799.3	47.5
0°-60°	4838.8	82.0
0°-90°	5899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2181	2181	2181	2181	2181	
5°	2174	2172	2172	2183	2187	206
15°	2084	2094	2117	2145	2155	588
25°	1908	1934	1976	2016	2033	879
35°	1661	1688	1743	1784	1798	1038
45°	1354	1384	1428	1462	1471	1044
55°	1010	1031	1061	1086	1095	900
65°	636	649	670	676	687	632
75°	290	294	304	311	315	312
85°	53	63	63	59	61	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2180.7	2180.7	2180.7	2180.7	2180.7
2.5°	2182.8	2178.6	2174.4	2182.8	2187.1
5°	2174.4	2172.3	2172.3	2182.8	2187.1
7.5°	2159.6	2159.6	2165.9	2180.7	2185.0
10°	2140.6	2144.8	2153.3	2174.4	2180.7
12.5°	2115.2	2123.7	2138.5	2163.8	2172.3
15°	2083.5	2094.1	2117.3	2144.8	2155.4
17.5°	2047.6	2062.4	2092.0	2123.7	2134.2
20°	2005.3	2024.4	2058.2	2094.1	2106.8
22.5°	1958.9	1982.1	2020.1	2058.2	2073.0
25°	1908.1	1933.5	1975.8	2015.9	2032.8
27.5°	1855.3	1880.7	1927.2	1967.3	1984.2
30°	1791.9	1821.5	1870.1	1912.4	1927.2
32.5°	1730.6	1760.2	1810.9	1849.0	1863.8
35°	1660.9	1688.4	1743.3	1783.5	1798.3
37.5°	1586.9	1618.6	1671.5	1707.4	1720.1
40°	1515.1	1542.6	1593.3	1629.2	1641.9
42.5°	1434.8	1464.4	1515.1	1546.8	1557.4
45°	1354.5	1384.1	1428.5	1462.3	1470.7
47.5°	1272.1	1299.6	1343.9	1371.4	1379.9
50°	1183.3	1208.7	1251.0	1278.4	1289.0
52.5°	1098.8	1122.1	1158.0	1181.2	1187.6
55°	1010.1	1031.2	1060.8	1086.1	1094.6
57.5°	915.0	938.2	965.7	986.8	993.2
60°	824.1	843.1	866.4	885.4	887.5
62.5°	735.4	743.8	764.9	781.9	784.0
65°	636.0	648.7	669.9	676.2	686.8
67.5°	545.2	553.6	570.5	579.0	587.4
70°	452.2	458.5	475.5	486.0	488.1
72.5°	371.9	374.0	386.7	395.2	397.3
75°	289.5	293.7	304.3	310.6	314.9
77.5°	219.8	224.0	232.4	236.7	236.7
80°	154.3	160.6	169.0	171.2	173.3
82.5°	99.3	107.8	114.1	116.2	112.0
85°	52.8	63.4	63.4	59.2	61.3
87.5°	19.0	23.2	25.4	27.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)