

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: P296807

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-55L82765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5199.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

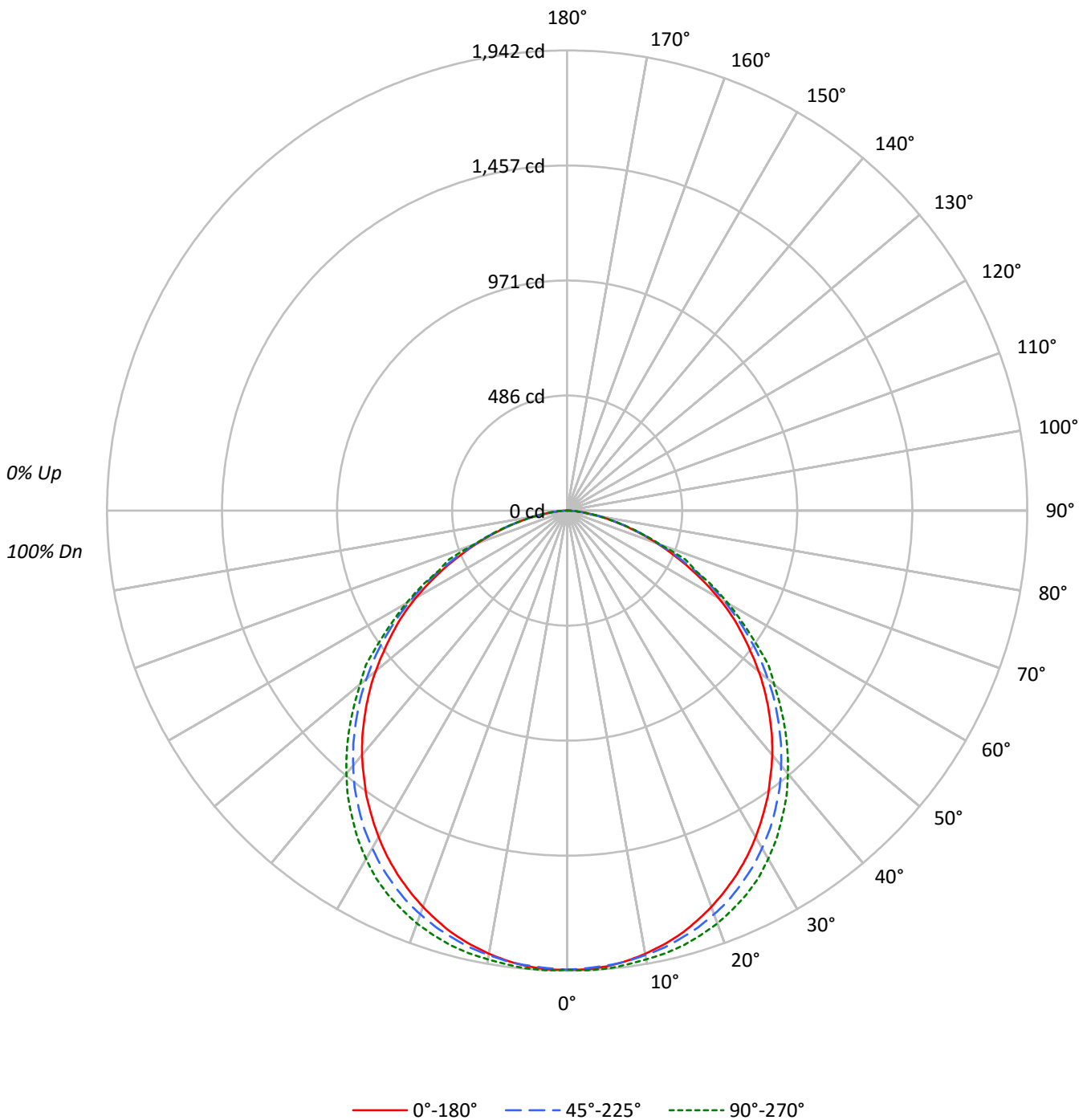
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2608	2608	2608
5°	2608	2603	2620
10°	2595	2602	2628
15°	2578	2601	2645
20°	2548	2596	2655
25°	2515	2581	2656
30°	2472	2556	2637
35°	2424	2519	2598
40°	2366	2467	2546
45°	2293	2399	2474
50°	2210	2316	2386
55°	2109	2206	2271
60°	1988	2063	2113
65°	1805	1865	1900
70°	1585	1622	1644
75°	1338	1358	1367
80°	1069	1084	1055
85°	719	749	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	3.5
10°-20°	528.2	10.2
20°-30°	801.4	15.4
30°-40°	956.8	18.4
40°-50°	968.7	18.6
50°-60°	837.3	16.1
60°-70°	580.3	11.2
70°-80°	280.8	5.4
80°-90°	61.7	1.2
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°	1513.3	29.1
0°-40°	2470.2	47.5
0°-60°	4276.1	82.2
0°-90°	5199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1931	1929	1927	1936	1940	183
15°	1850	1854	1867	1890	1899	522
25°	1694	1705	1739	1774	1789	780
35°	1476	1489	1533	1572	1582	922
45°	1205	1222	1261	1293	1300	929
55°	899	908	940	979	968	804
65°	567	573	586	595	597	561
75°	257	259	261	259	263	276
85°	47	50	48	47	47	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1938.2	1938.2	1938.2	1938.2	1938.2
2.5°	1938.2	1936.3	1932.6	1938.2	1941.9
5°	1930.7	1928.8	1927.0	1936.3	1940.0
7.5°	1917.6	1917.6	1919.5	1928.8	1932.6
10°	1899.0	1900.8	1904.6	1919.5	1923.2
12.5°	1876.6	1880.3	1889.6	1906.4	1913.9
15°	1850.5	1854.2	1867.3	1889.6	1899.0
17.5°	1816.9	1824.4	1843.0	1869.1	1878.5
20°	1779.6	1788.9	1813.2	1843.0	1854.2
22.5°	1738.6	1747.9	1779.6	1811.3	1822.5
25°	1693.8	1705.0	1738.6	1774.0	1788.9
27.5°	1645.3	1658.3	1695.6	1733.0	1747.9
30°	1591.2	1606.1	1645.3	1684.5	1697.5
32.5°	1533.4	1548.3	1593.1	1630.4	1643.4
35°	1475.5	1488.6	1533.4	1572.5	1581.9
37.5°	1410.2	1425.2	1473.7	1507.2	1520.3
40°	1346.8	1361.7	1404.6	1438.2	1449.4
42.5°	1277.8	1292.7	1335.6	1367.3	1376.7
45°	1205.0	1221.8	1261.0	1292.7	1300.2
47.5°	1132.3	1145.4	1186.4	1214.4	1220.0
50°	1055.8	1068.9	1106.2	1134.2	1139.8
52.5°	975.6	996.1	1026.0	1046.5	1070.7
55°	899.1	908.4	940.2	979.3	968.1
57.5°	822.6	828.2	854.4	871.1	874.9
60°	738.7	746.2	766.7	776.0	785.3
62.5°	651.0	656.6	680.9	690.2	693.9
65°	567.1	572.7	585.7	595.1	596.9
67.5°	481.3	486.9	498.1	505.5	539.1
70°	402.9	406.7	412.3	427.2	417.8
72.5°	328.3	330.2	335.8	335.8	337.6
75°	257.4	259.3	261.2	259.3	263.0
77.5°	192.1	195.9	197.7	195.9	194.0
80°	138.0	141.8	139.9	136.2	136.2
82.5°	89.5	91.4	89.5	87.7	87.7
85°	46.6	50.4	48.5	46.6	46.6
87.5°	16.8	18.7	20.5	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)