

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: P296735

Luminaire Tested: **D3X-WD-55L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296735
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-55L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5209.0 lumens
Efficiency: N/A
Efficacy: 136.0 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

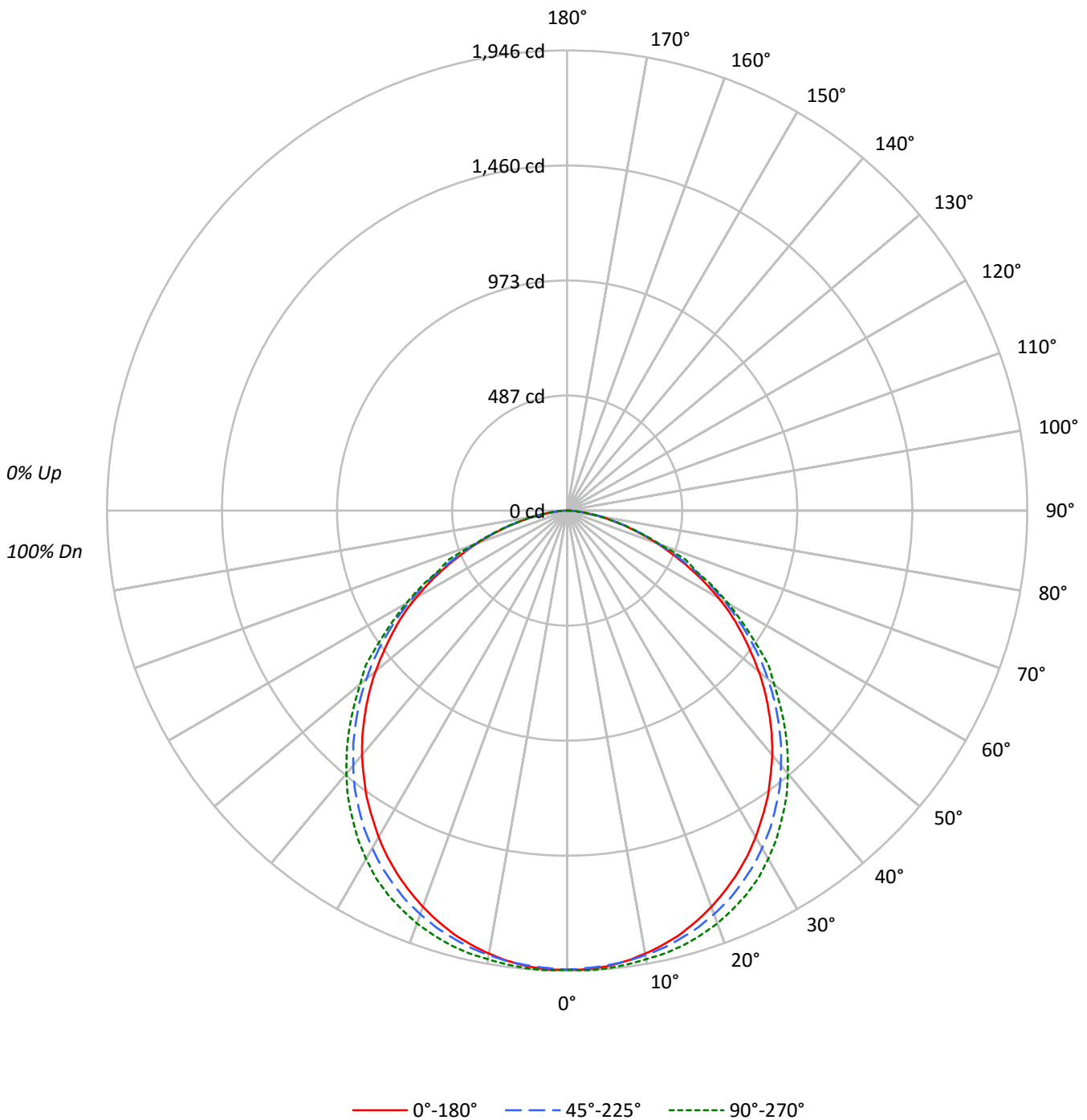
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2613	2613	2613
5°	2613	2608	2625
10°	2599	2607	2633
15°	2583	2606	2650
20°	2553	2601	2660
25°	2519	2586	2661
30°	2477	2561	2642
35°	2428	2523	2603
40°	2370	2472	2551
45°	2297	2404	2479
50°	2214	2320	2390
55°	2113	2210	2275
60°	1992	2067	2117
65°	1809	1869	1904
70°	1588	1625	1647
75°	1341	1360	1370
80°	1072	1086	1057
85°	721	750	721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	3.5
10°-20°	529.2	10.2
20°-30°	803.0	15.4
30°-40°	958.7	18.4
40°-50°	970.5	18.6
50°-60°	838.9	16.1
60°-70°	581.5	11.2
70°-80°	281.3	5.4
80°-90°	61.8	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°	1516.2	29.1
0°-40°	2474.9	47.5
0°-60°	4284.4	82.2
0°-90°	5209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1934	1932	1931	1940	1944	184
15°	1854	1858	1871	1893	1903	523
25°	1697	1708	1742	1777	1792	782
35°	1478	1492	1536	1576	1585	924
45°	1207	1224	1263	1295	1303	931
55°	901	910	942	981	970	805
65°	568	574	587	596	598	562
75°	258	260	262	260	264	277
85°	47	50	49	47	47	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.9	1941.9	1941.9	1941.9	1941.9
2.5°	1941.9	1940.0	1936.3	1941.9	1945.6
5°	1934.4	1932.5	1930.7	1940.0	1943.7
7.5°	1921.3	1921.3	1923.2	1932.5	1936.3
10°	1902.6	1904.5	1908.2	1923.2	1926.9
12.5°	1880.2	1883.9	1893.3	1910.1	1917.6
15°	1854.0	1857.8	1870.9	1893.3	1902.6
17.5°	1820.4	1827.9	1846.6	1872.7	1882.1
20°	1783.0	1792.4	1816.7	1846.6	1857.8
22.5°	1741.9	1751.2	1783.0	1814.8	1826.0
25°	1697.0	1708.3	1741.9	1777.4	1792.4
27.5°	1648.4	1661.5	1698.9	1736.3	1751.2
30°	1594.2	1609.2	1648.4	1687.7	1700.8
32.5°	1536.3	1551.3	1596.1	1633.5	1646.6
35°	1478.4	1491.5	1536.3	1575.6	1584.9
37.5°	1413.0	1427.9	1476.5	1510.1	1523.2
40°	1349.4	1364.4	1407.3	1441.0	1452.2
42.5°	1280.3	1295.2	1338.2	1370.0	1379.3
45°	1207.4	1224.2	1263.4	1295.2	1302.7
47.5°	1134.5	1147.6	1188.7	1216.7	1222.3
50°	1057.8	1070.9	1108.3	1136.3	1142.0
52.5°	977.5	998.0	1027.9	1048.5	1072.8
55°	900.9	910.2	942.0	981.2	970.0
57.5°	824.2	829.8	856.0	872.8	876.6
60°	740.1	747.6	768.2	777.5	786.8
62.5°	652.3	657.9	682.2	691.5	695.3
65°	568.2	573.8	586.9	596.2	598.1
67.5°	482.2	487.8	499.0	506.5	540.1
70°	403.7	407.4	413.0	428.0	418.7
72.5°	328.9	330.8	336.4	336.4	338.3
75°	257.9	259.8	261.7	259.8	263.5
77.5°	192.5	196.2	198.1	196.2	194.4
80°	138.3	142.0	140.2	136.4	136.4
82.5°	89.7	91.6	89.7	87.8	87.8
85°	46.7	50.5	48.6	46.7	46.7
87.5°	16.8	18.7	20.6	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)