

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: P258452

Luminaire Tested: **D3X-WG-55L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-55L940-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4487.3 lumens
Efficiency: N/A
Efficacy: 105.1 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

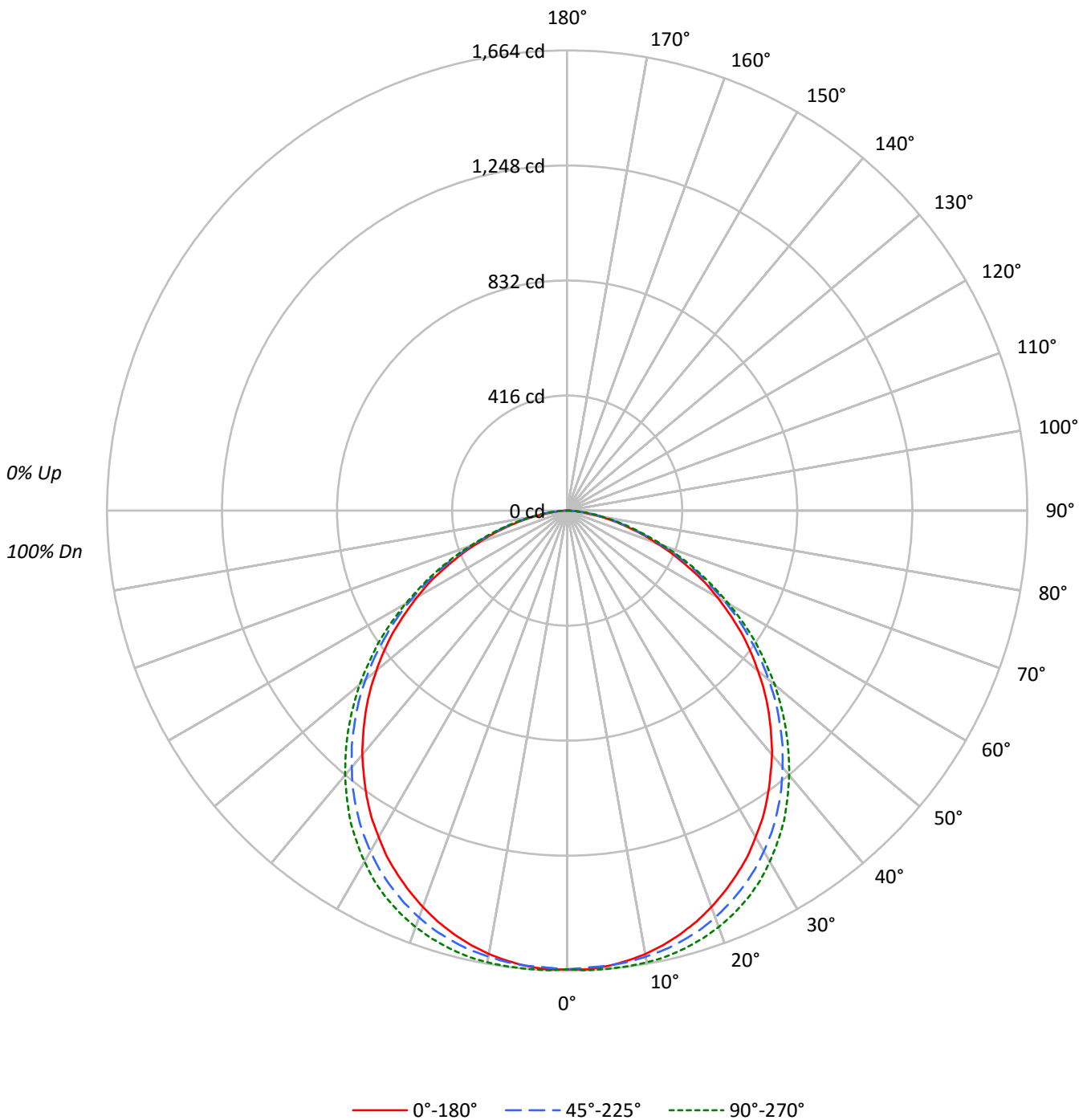
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2232	2232	2232
5°	2234	2232	2247
10°	2225	2238	2266
15°	2208	2243	2284
20°	2184	2242	2295
25°	2155	2231	2296
30°	2118	2210	2278
35°	2075	2178	2247
40°	2024	2129	2194
45°	1961	2068	2129
50°	1884	1992	2052
55°	1802	1893	1953
60°	1687	1773	1817
65°	1540	1622	1663
70°	1353	1423	1461
75°	1145	1203	1245
80°	909	996	1021
85°	621	744	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	3.5
10°-20°	455.1	10.1
20°-30°	691.5	15.4
30°-40°	825.2	18.4
40°-50°	833.4	18.6
50°-60°	718.0	16.0
60°-70°	500.5	11.2
70°-80°	248.1	5.5
80°-90°	57.8	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°	1304.2	29.1
0°-40°	2129.4	47.5
0°-60°	3680.8	82.0
0°-90°	4487.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4487.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1654	1652	1652	1660	1664	157
15°	1585	1593	1611	1632	1640	447
25°	1452	1471	1503	1534	1546	669
35°	1263	1284	1326	1357	1368	790
45°	1030	1053	1087	1112	1119	794
55°	768	784	807	826	833	685
65°	484	494	510	514	522	480
75°	220	223	232	236	240	237
85°	40	48	48	45	47	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1660.5	1657.2	1654.0	1660.5	1663.7
5°	1654.0	1652.4	1652.4	1660.5	1663.7
7.5°	1642.8	1642.8	1647.6	1658.9	1662.1
10°	1628.3	1631.5	1638.0	1654.0	1658.9
12.5°	1609.0	1615.5	1626.7	1646.0	1652.4
15°	1584.9	1592.9	1610.6	1631.5	1639.6
17.5°	1557.6	1568.8	1591.3	1615.5	1623.5
20°	1525.4	1539.9	1565.6	1592.9	1602.6
22.5°	1490.1	1507.8	1536.7	1565.6	1576.9
25°	1451.5	1470.8	1502.9	1533.5	1546.3
27.5°	1411.3	1430.6	1466.0	1496.5	1509.4
30°	1363.1	1385.6	1422.6	1454.7	1466.0
32.5°	1316.5	1339.0	1377.6	1406.5	1417.7
35°	1263.4	1284.3	1326.1	1356.7	1367.9
37.5°	1207.2	1231.3	1271.5	1298.8	1308.4
40°	1152.5	1173.4	1212.0	1239.3	1249.0
42.5°	1091.4	1113.9	1152.5	1176.6	1184.7
45°	1030.4	1052.9	1086.6	1112.3	1118.8
47.5°	967.7	988.6	1022.3	1043.2	1049.6
50°	900.2	919.4	951.6	972.5	980.5
52.5°	835.9	853.5	880.9	898.5	903.4
55°	768.3	784.4	806.9	826.2	832.6
57.5°	696.0	713.7	734.6	750.7	755.5
60°	626.9	641.4	659.0	673.5	675.1
62.5°	559.4	565.8	581.9	594.7	596.4
65°	483.8	493.5	509.6	514.4	522.4
67.5°	414.7	421.1	434.0	440.4	446.9
70°	344.0	348.8	361.7	369.7	371.3
72.5°	282.9	284.5	294.2	300.6	302.2
75°	220.2	223.4	231.5	236.3	239.5
77.5°	167.2	170.4	176.8	180.0	180.0
80°	117.3	122.2	128.6	130.2	131.8
82.5°	75.5	82.0	86.8	88.4	85.2
85°	40.2	48.2	48.2	45.0	46.6
87.5°	14.5	17.7	19.3	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)