

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: P258431

Luminaire Tested: **D3X-WG-42L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258431
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-42L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3849.1 lumens
Efficiency: N/A
Efficacy: 123.4 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

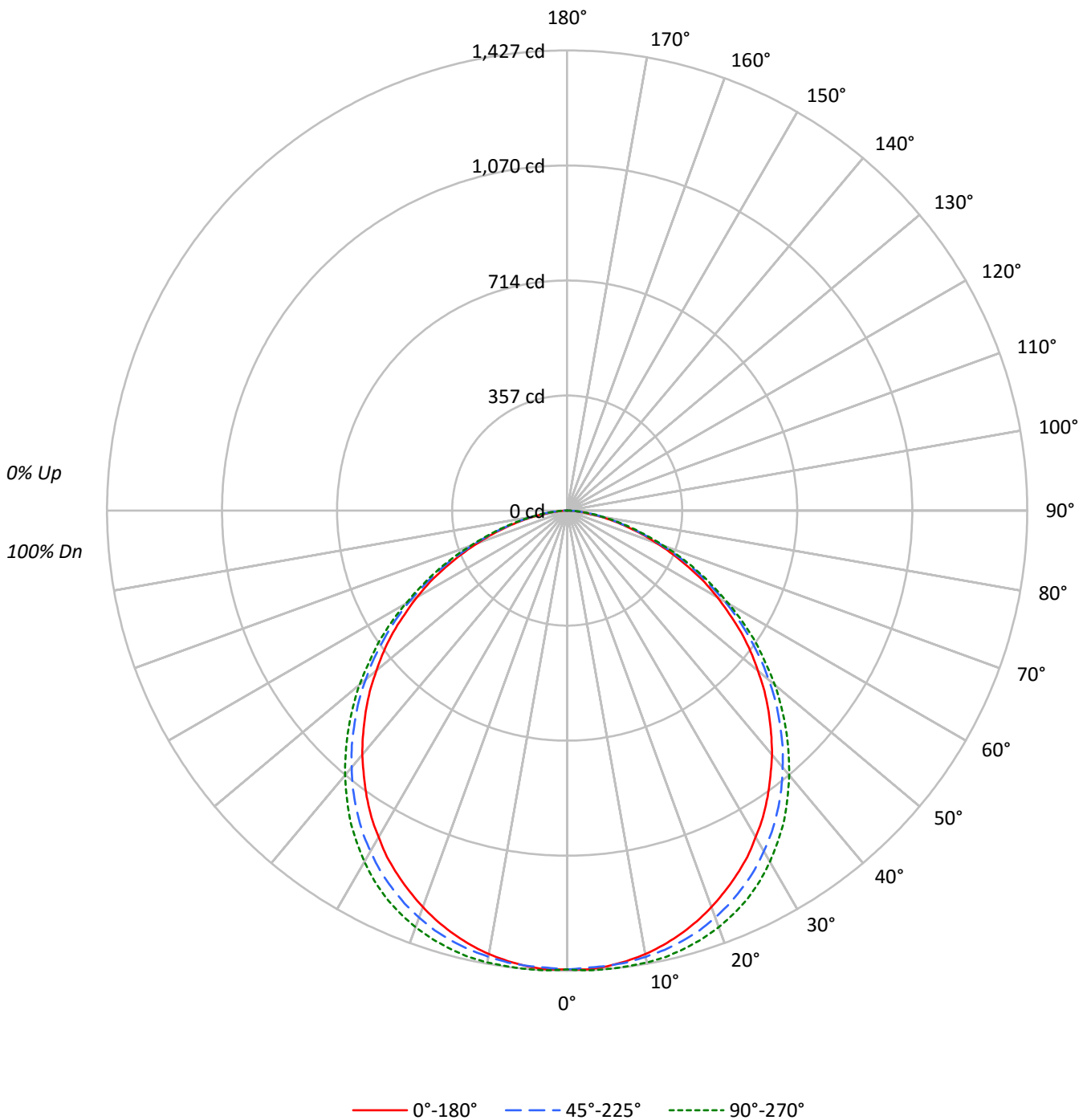
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1914	1914	1914
5°	1916	1914	1927
10°	1908	1920	1944
15°	1894	1925	1959
20°	1874	1923	1968
25°	1848	1914	1969
30°	1817	1896	1954
35°	1780	1868	1927
40°	1736	1826	1882
45°	1682	1774	1826
50°	1616	1709	1761
55°	1546	1624	1675
60°	1447	1521	1558
65°	1321	1392	1427
70°	1161	1220	1253
75°	982	1032	1068
80°	780	855	876
85°	533	639	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.5
10°-20°	390.3	10.1
20°-30°	593.2	15.4
30°-40°	707.8	18.4
40°-50°	714.9	18.6
50°-60°	615.9	16.0
60°-70°	429.4	11.2
70°-80°	212.8	5.5
80°-90°	49.6	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°	1118.7	29.1
0°-40°	1826.6	47.5
0°-60°	3157.4	82.0
0°-90°	3849.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3849.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1423	1423	1423	1423	1423	
5°	1419	1417	1417	1424	1427	135
15°	1360	1366	1382	1400	1406	383
25°	1245	1262	1289	1315	1326	574
35°	1084	1102	1138	1164	1173	677
45°	884	903	932	954	960	681
55°	659	673	692	709	714	587
65°	415	423	437	441	448	412
75°	189	192	198	203	205	204
85°	34	41	41	39	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1422.9	1422.9	1422.9	1422.9	1422.9
2.5°	1424.3	1421.6	1418.8	1424.3	1427.1
5°	1418.8	1417.4	1417.4	1424.3	1427.1
7.5°	1409.2	1409.2	1413.3	1422.9	1425.7
10°	1396.7	1399.5	1405.0	1418.8	1422.9
12.5°	1380.2	1385.7	1395.4	1411.9	1417.4
15°	1359.5	1366.4	1381.6	1399.5	1406.4
17.5°	1336.1	1345.7	1365.0	1385.7	1392.6
20°	1308.5	1320.9	1343.0	1366.4	1374.7
22.5°	1278.2	1293.3	1318.2	1343.0	1352.6
25°	1245.1	1261.6	1289.2	1315.4	1326.4
27.5°	1210.6	1227.1	1257.5	1283.7	1294.7
30°	1169.2	1188.5	1220.3	1247.8	1257.5
32.5°	1129.3	1148.6	1181.6	1206.5	1216.1
35°	1083.8	1101.7	1137.5	1163.7	1173.4
37.5°	1035.5	1056.2	1090.6	1114.1	1122.4
40°	988.6	1006.5	1039.6	1063.1	1071.3
42.5°	936.2	955.5	988.6	1009.3	1016.2
45°	883.8	903.1	932.1	954.1	959.7
47.5°	830.0	848.0	876.9	894.9	900.4
50°	772.1	788.7	816.3	834.2	841.1
52.5°	717.0	732.2	755.6	770.8	774.9
55°	659.1	672.9	692.2	708.7	714.2
57.5°	597.0	612.2	630.1	643.9	648.0
60°	537.7	550.1	565.3	577.7	579.1
62.5°	479.8	485.3	499.1	510.2	511.5
65°	415.0	423.3	437.1	441.2	448.1
67.5°	355.7	361.3	372.3	377.8	383.3
70°	295.1	299.2	310.2	317.1	318.5
72.5°	242.7	244.1	252.3	257.8	259.2
75°	188.9	191.7	198.5	202.7	205.4
77.5°	143.4	146.2	151.7	154.4	154.4
80°	100.7	104.8	110.3	111.7	113.1
82.5°	64.8	70.3	74.5	75.8	73.1
85°	34.5	41.4	41.4	38.6	40.0
87.5°	12.4	15.2	16.5	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)