

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: P257425

Luminaire Tested: **D3X-WG-44L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-44L840-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160.3 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

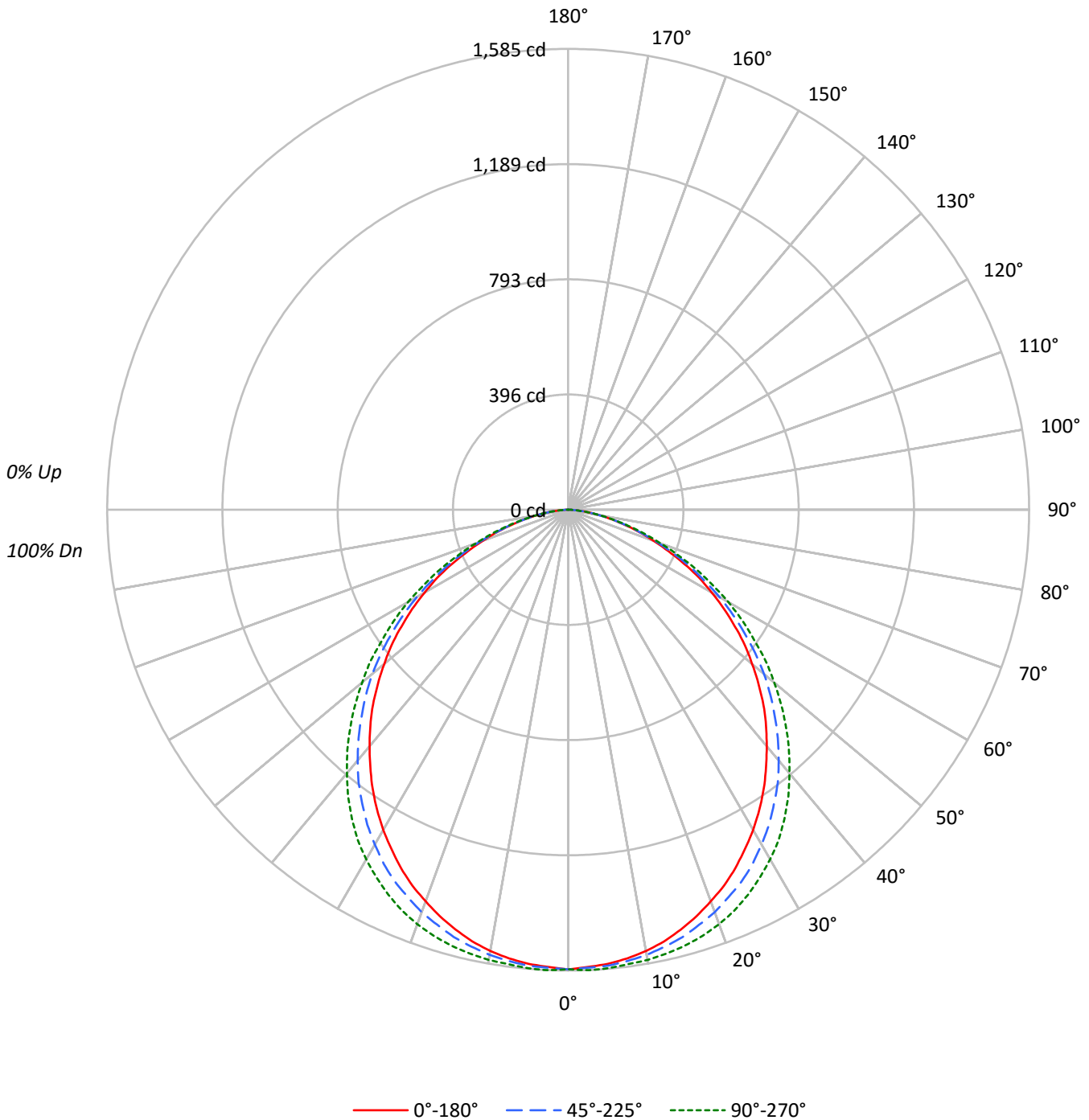
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4254	4254	4254
5°	4235	4253	4277
10°	4212	4248	4296
15°	4165	4238	4325
20°	4104	4218	4344
25°	4039	4189	4340
30°	3952	4131	4316
35°	3852	4055	4258
40°	3731	3956	4157
45°	3613	3824	4034
50°	3457	3679	3873
55°	3284	3470	3657
60°	3066	3232	3422
65°	2798	2925	3093
70°	2449	2554	2658
75°	2089	2136	2227
80°	1677	1711	1745
85°	1226	1158	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.6
10°-20°	429.5	10.3
20°-30°	649.3	15.6
30°-40°	771.2	18.5
40°-50°	774.3	18.6
50°-60°	661.4	15.9
60°-70°	455.7	11.0
70°-80°	220.9	5.3
80°-90°	48.3	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°	1228.5	29.5
0°-40°	1999.7	48.1
0°-60°	3435.3	82.6
0°-90°	4160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1568	1568	1574	1579	1583	149
15°	1495	1502	1521	1541	1552	421
25°	1360	1371	1411	1448	1462	626
35°	1172	1190	1234	1281	1296	732
45°	950	963	1005	1047	1060	731
55°	700	711	740	771	780	626
65°	439	439	459	479	486	435
75°	201	196	205	210	214	216
85°	40	40	38	35	35	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.0	1581.0	1581.0	1581.0	1581.0
2.5°	1574.4	1574.4	1576.6	1583.2	1585.4
5°	1567.7	1567.7	1574.4	1578.8	1583.2
7.5°	1556.7	1558.9	1565.5	1574.4	1576.6
10°	1541.3	1543.5	1554.5	1565.5	1572.2
12.5°	1521.4	1525.8	1539.0	1556.7	1563.3
15°	1494.9	1501.5	1521.4	1541.3	1552.3
17.5°	1466.2	1475.0	1497.1	1525.8	1536.8
20°	1433.1	1444.1	1472.8	1503.7	1517.0
22.5°	1399.9	1408.8	1441.9	1477.2	1492.7
25°	1360.2	1371.2	1411.0	1448.5	1461.8
27.5°	1316.0	1331.5	1373.4	1413.2	1426.4
30°	1271.9	1285.1	1329.3	1373.4	1388.9
32.5°	1223.3	1236.5	1285.1	1329.3	1346.9
35°	1172.5	1190.2	1234.3	1280.7	1296.2
37.5°	1117.3	1137.2	1183.5	1223.3	1243.2
40°	1062.1	1079.8	1126.1	1168.1	1183.5
42.5°	1006.9	1022.3	1066.5	1110.7	1123.9
45°	949.5	962.7	1004.7	1046.6	1059.9
47.5°	887.7	903.1	942.9	978.2	993.6
50°	825.8	841.3	878.8	911.9	925.2
52.5°	766.2	775.0	810.4	841.3	856.7
55°	700.0	711.0	739.7	770.6	779.5
57.5°	635.9	642.6	671.3	697.8	711.0
60°	569.7	574.1	600.6	620.5	635.9
62.5°	507.9	507.9	527.7	549.8	558.6
65°	439.4	439.4	459.3	479.2	485.8
67.5°	373.2	377.6	390.8	406.3	410.7
70°	311.3	311.3	324.6	335.6	337.8
72.5°	256.1	253.9	260.6	269.4	273.8
75°	200.9	196.5	205.4	209.8	214.2
77.5°	152.4	150.2	154.6	159.0	159.0
80°	108.2	106.0	110.4	110.4	112.6
82.5°	70.7	72.9	72.9	70.7	68.5
85°	39.7	39.7	37.5	35.3	35.3
87.5°	13.2	13.2	13.2	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)