

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: P257419

Luminaire Tested: **D3X-WG-40L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257419
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-40L840-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: 3810.8 lumens
Efficiency: N/A
Efficacy: 107.0 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

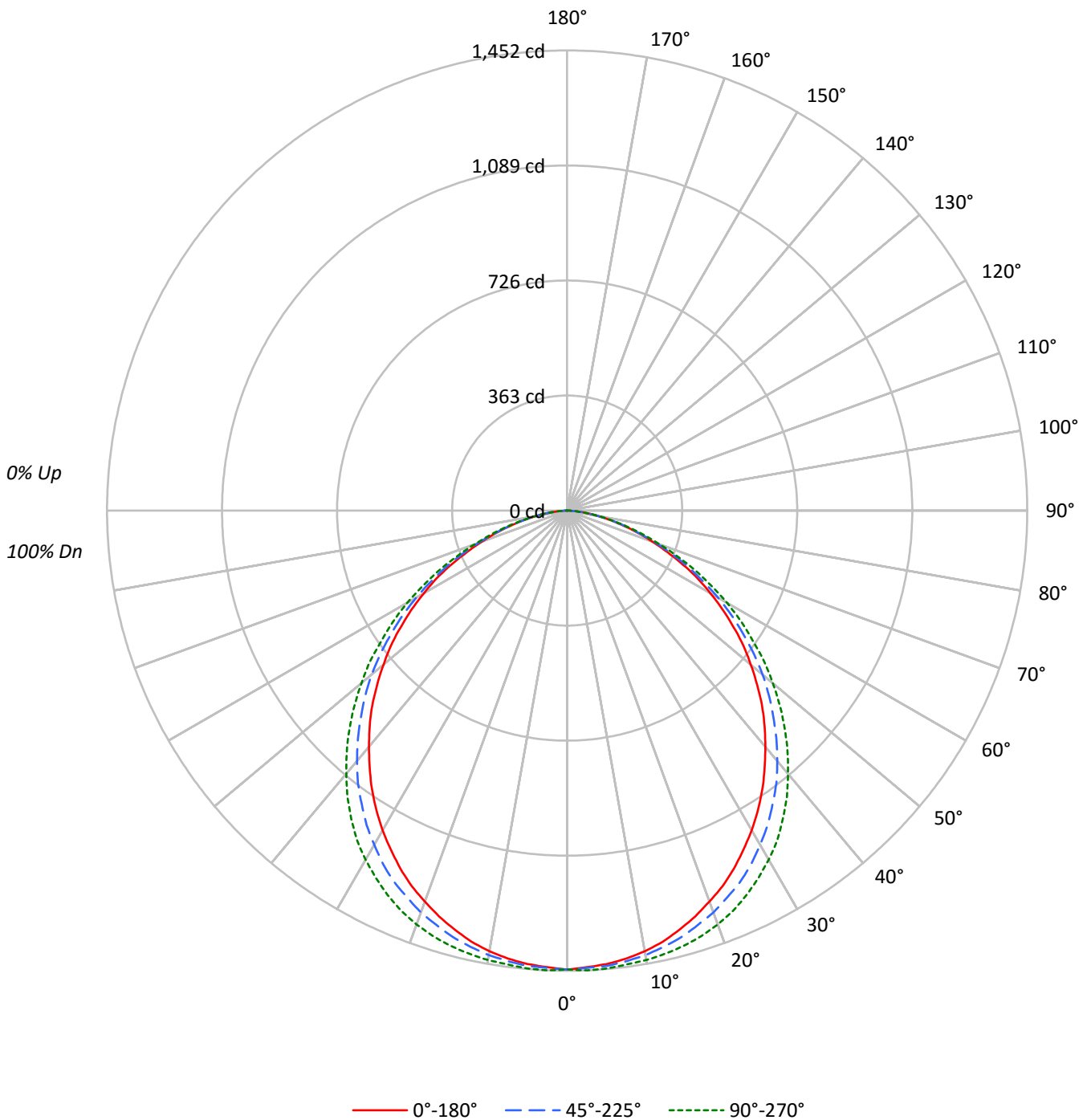
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3897	3897	3897
5°	3879	3895	3917
10°	3858	3891	3935
15°	3815	3882	3961
20°	3759	3863	3979
25°	3699	3838	3976
30°	3620	3783	3953
35°	3528	3714	3900
40°	3418	3623	3808
45°	3310	3502	3695
50°	3167	3370	3548
55°	3008	3179	3350
60°	2808	2961	3135
65°	2563	2679	2833
70°	2244	2339	2435
75°	1914	1956	2040
80°	1536	1567	1599
85°	1124	1062	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.6
10°-20°	393.4	10.3
20°-30°	594.8	15.6
30°-40°	706.5	18.5
40°-50°	709.2	18.6
50°-60°	605.8	15.9
60°-70°	417.4	11.0
70°-80°	202.4	5.3
80°-90°	44.3	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°	1125.3	29.5
0°-40°	1831.7	48.1
0°-60°	3146.8	82.6
0°-90°	3810.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1436	1436	1442	1446	1450	136
15°	1369	1375	1394	1412	1422	386
25°	1246	1256	1292	1327	1339	573
35°	1074	1090	1131	1173	1187	671
45°	870	882	920	959	971	669
55°	641	651	678	706	714	573
65°	402	402	421	439	445	399
75°	184	180	188	192	196	198
85°	36	36	34	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.2	1448.2	1448.2	1448.2	1448.2
2.5°	1442.1	1442.1	1444.2	1450.2	1452.2
5°	1436.1	1436.1	1442.1	1446.2	1450.2
7.5°	1426.0	1428.0	1434.0	1442.1	1444.2
10°	1411.8	1413.8	1423.9	1434.0	1440.1
12.5°	1393.6	1397.6	1409.8	1426.0	1432.0
15°	1369.3	1375.4	1393.6	1411.8	1421.9
17.5°	1343.0	1351.1	1371.3	1397.6	1407.7
20°	1312.7	1322.8	1349.1	1377.4	1389.5
22.5°	1282.3	1290.4	1320.8	1353.1	1367.3
25°	1245.9	1256.1	1292.5	1326.8	1339.0
27.5°	1205.5	1219.6	1258.1	1294.5	1306.6
30°	1165.0	1177.2	1217.6	1258.1	1272.2
32.5°	1120.5	1132.7	1177.2	1217.6	1233.8
35°	1074.0	1090.2	1130.6	1173.1	1187.3
37.5°	1023.5	1041.7	1084.1	1120.5	1138.7
40°	972.9	989.1	1031.5	1070.0	1084.1
42.5°	922.3	936.5	976.9	1017.4	1029.5
45°	869.7	881.9	920.3	958.7	970.9
47.5°	813.1	827.3	863.7	896.0	910.2
50°	756.5	770.6	805.0	835.3	847.5
52.5°	701.9	709.9	742.3	770.6	784.8
55°	641.2	651.3	677.6	705.9	714.0
57.5°	582.5	588.6	614.9	639.2	651.3
60°	521.8	525.9	550.2	568.4	582.5
62.5°	465.2	465.2	483.4	503.6	511.7
65°	402.5	402.5	420.7	438.9	445.0
67.5°	341.8	345.9	358.0	372.2	376.2
70°	285.2	285.2	297.3	307.4	309.5
72.5°	234.6	232.6	238.7	246.8	250.8
75°	184.1	180.0	188.1	192.1	196.2
77.5°	139.6	137.5	141.6	145.6	145.6
80°	99.1	97.1	101.1	101.1	103.2
82.5°	64.7	66.7	66.7	64.7	62.7
85°	36.4	36.4	34.4	32.4	32.4
87.5°	12.1	12.1	12.1	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)