

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: P257294

Luminaire Tested: **D3X-WD-40L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L830-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3666.9 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

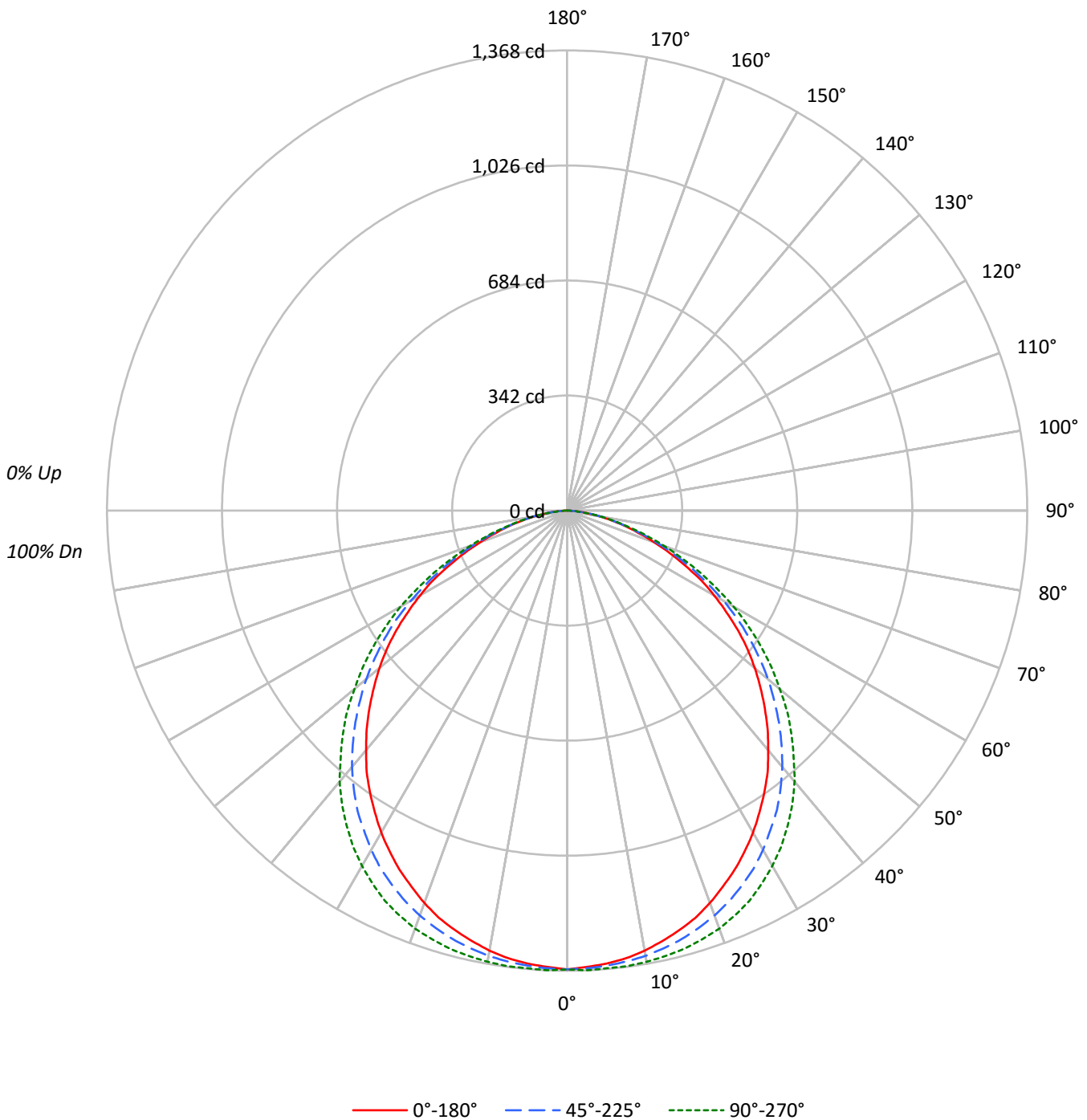
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	3670	3670	3670
5°	3652	3668	3689
10°	3630	3673	3721
15°	3596	3673	3756
20°	3555	3668	3787
25°	3499	3651	3804
30°	3434	3618	3790
35°	3359	3573	3754
40°	3266	3495	3695
45°	3162	3388	3591
50°	3049	3264	3454
55°	2908	3102	3297
60°	2720	2890	3081
65°	2464	2614	2777
70°	2174	2282	2407
75°	1867	1909	1991
80°	1499	1530	1561
85°	1096	976	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.5
10°-20°	372.3	10.2
20°-30°	566.3	15.4
30°-40°	677.5	18.5
40°-50°	685.0	18.7
50°-60°	589.4	16.1
60°-70°	407.0	11.1
70°-80°	197.3	5.4
80°-90°	42.8	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°	1067.9	29.1
0°-40°	1745.4	47.6
0°-60°	3019.8	82.4
0°-90°	3666.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3666.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1352	1354	1358	1364	1366	128
15°	1291	1299	1318	1338	1348	364
25°	1178	1192	1230	1267	1281	543
35°	1022	1040	1088	1127	1143	639
45°	831	847	890	928	944	641
55°	620	630	661	691	703	553
65°	387	393	410	428	436	385
75°	180	176	184	190	192	191
85°	36	36	32	32	32	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1357.9	1357.9	1361.9	1365.8	1367.8
5°	1352.0	1354.0	1357.9	1363.9	1365.8
7.5°	1342.2	1344.1	1352.0	1361.9	1365.8
10°	1328.3	1332.3	1344.1	1356.0	1361.9
12.5°	1310.6	1318.5	1332.3	1348.1	1356.0
15°	1290.8	1298.7	1318.5	1338.2	1348.1
17.5°	1269.1	1277.0	1300.7	1326.4	1336.2
20°	1241.5	1253.3	1281.0	1310.6	1322.4
22.5°	1209.9	1225.7	1257.3	1288.9	1302.7
25°	1178.3	1192.2	1229.7	1267.2	1281.0
27.5°	1142.8	1158.6	1200.0	1237.5	1251.4
30°	1105.3	1121.1	1164.5	1206.0	1219.8
32.5°	1063.9	1083.6	1125.0	1168.5	1184.3
35°	1022.4	1040.2	1087.5	1127.0	1142.8
37.5°	979.0	994.8	1042.1	1083.6	1099.4
40°	929.6	947.4	994.8	1036.2	1052.0
42.5°	882.3	900.0	943.5	982.9	996.7
45°	831.0	846.7	890.2	927.7	943.5
47.5°	779.6	797.4	834.9	872.4	888.2
50°	728.3	742.1	779.6	815.2	825.0
52.5°	675.0	686.9	720.4	752.0	765.8
55°	619.8	629.6	661.2	690.8	702.7
57.5°	560.5	572.4	602.0	623.7	637.5
60°	505.3	511.2	536.9	558.6	572.4
62.5°	450.0	452.0	471.7	493.4	501.3
65°	386.9	392.8	410.5	428.3	436.2
67.5°	329.6	335.5	349.4	363.2	369.1
70°	276.3	276.3	290.1	300.0	305.9
72.5°	223.0	225.0	234.9	240.8	246.7
75°	179.6	175.7	183.6	189.5	191.5
77.5°	134.2	132.2	138.2	140.1	144.1
80°	96.7	96.7	98.7	100.7	100.7
82.5°	63.2	63.2	65.1	61.2	59.2
85°	35.5	35.5	31.6	31.6	31.6
87.5°	11.8	11.8	11.8	13.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)