

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: G3-1806-819-2

Luminaire Tested: **D3X-WD-23L830-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1806-819-2
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-23L830-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (112) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2240.2 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

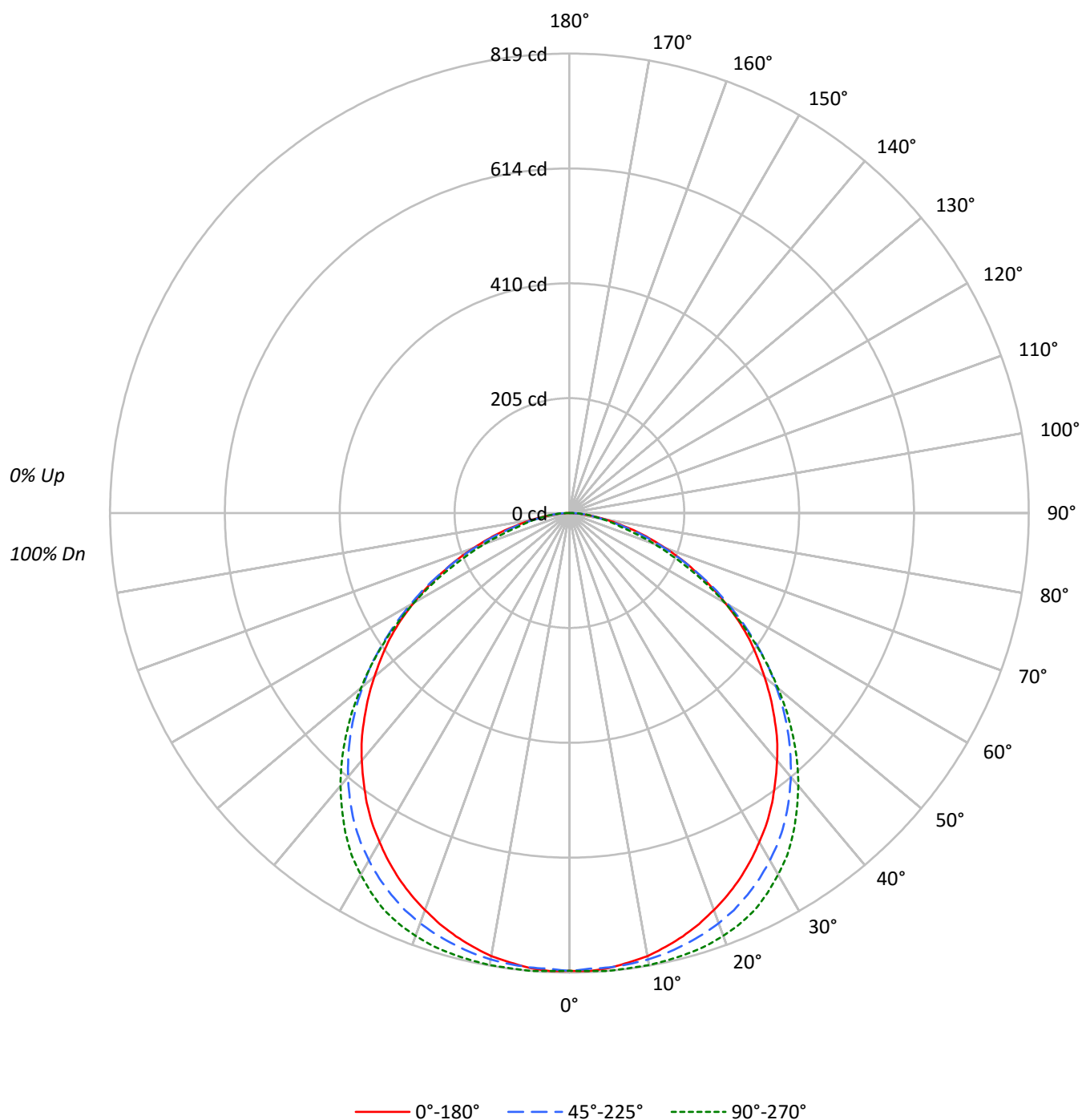
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	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	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	25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2196	2196	2196
5°	2199	2196	2212
10°	2191	2208	2235
15°	2176	2218	2265
20°	2156	2228	2297
25°	2135	2230	2319
30°	2104	2222	2312
35°	2070	2201	2286
40°	2023	2157	2231
45°	1968	2097	2146
50°	1901	2014	2030
55°	1834	1905	1895
60°	1728	1765	1722
65°	1592	1598	1509
70°	1424	1393	1267
75°	1237	1154	977
80°	992	899	899
85°	710	834	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.5
10°-20°	225.3	10.1
20°-30°	345.9	15.4
30°-40°	416.5	18.6
40°-50°	420.9	18.8
50°-60°	359.1	16.0
60°-70°	245.8	11.0
70°-80°	118.6	5.3
80°-90°	30.6	1.4
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°	648.7	29.0
0°-40°	1065.3	47.6
0°-60°	1845.3	82.4
0°-90°	2240.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2240.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	814	814	813	818	819	77
15°	781	787	796	810	813	220
25°	719	730	751	773	781	331
35°	630	644	670	691	696	394
45°	517	531	551	564	564	399
55°	391	398	406	408	404	348
65°	250	253	251	242	237	248
75°	119	119	111	98	94	126
85°	23	25	27	28	28	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816	816	816	816	816
2.5°	817	816	813	817	817
5°	814	814	813	818	819
7.5°	808	810	811	817	818
10°	802	804	808	816	818
12.5°	792	796	803	814	816
15°	781	787	796	810	813
17.5°	768	776	788	804	809
20°	753	762	778	796	802
22.5°	737	747	766	787	793
25°	719	730	751	773	781
27.5°	699	711	734	757	764
30°	677	690	715	738	744
32.5°	655	668	694	716	723
35°	630	644	670	691	696
37.5°	603	617	643	664	666
40°	576	590	614	633	635
42.5°	548	561	583	599	601
45°	517	531	551	564	564
47.5°	486	500	517	526	526
50°	454	467	481	486	485
52.5°	422	434	446	447	445
55°	391	398	406	408	404
57.5°	357	363	368	365	362
60°	321	327	328	323	320
62.5°	286	291	291	283	278
65°	250	253	251	242	237
67.5°	216	218	214	205	197
70°	181	182	177	166	161
72.5°	149	150	144	131	125
75°	119	119	111	98	94
77.5°	89	92	83	76	76
80°	64	67	58	59	58
82.5°	42	45	42	42	42
85°	23	25	27	28	28
87.5°	7	12	13	14	16
90°	0	0	0	0	0

(END OF REPORT)