

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: G3-1806-819-8

Luminaire Tested: **D3X-WD-31L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1806-819-8
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-31L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2787.1 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

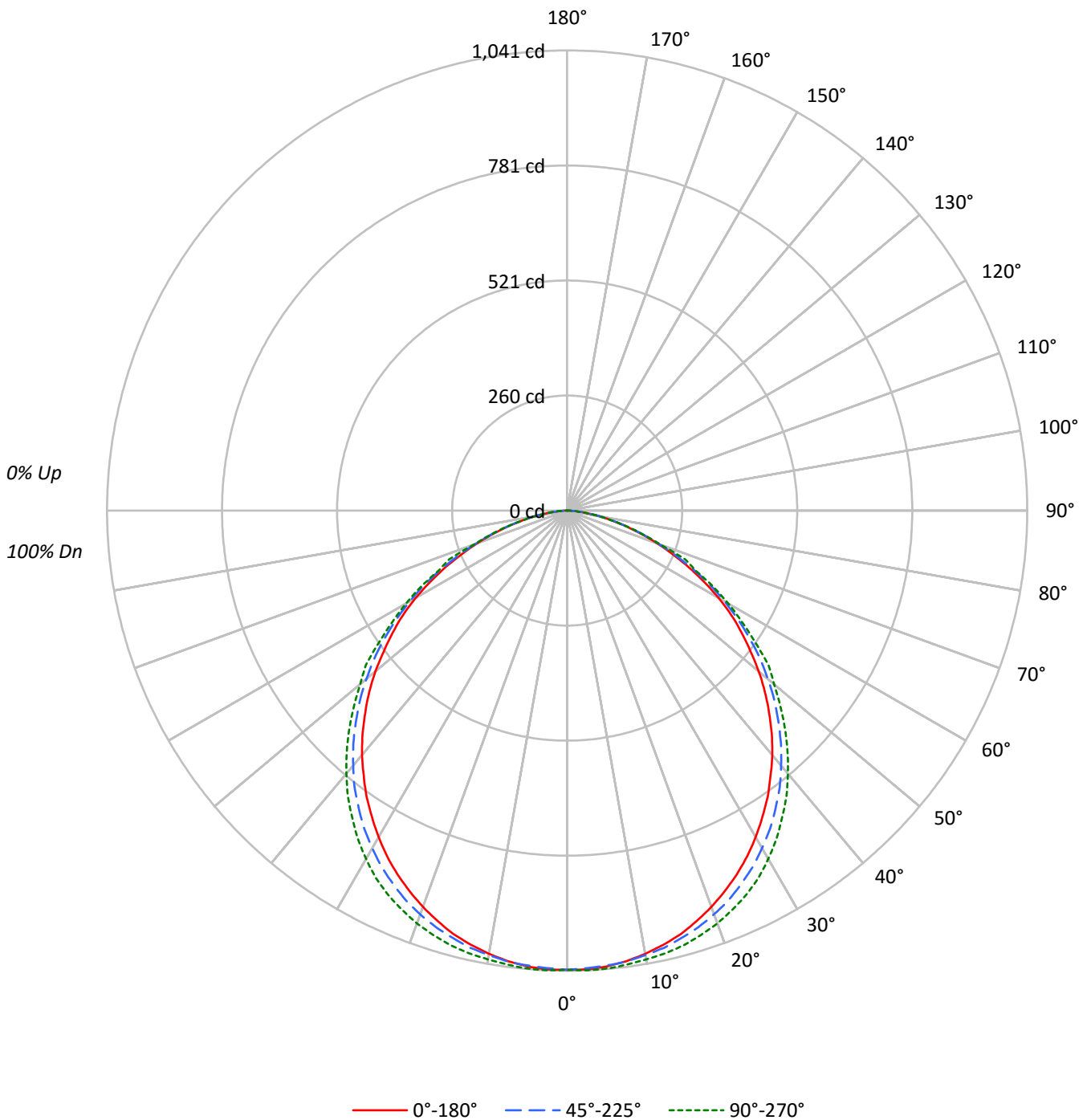
Input Watts (W): 22.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	94	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	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1398	1398	1398
5°	1398	1395	1405
10°	1391	1395	1409
15°	1382	1394	1418
20°	1366	1392	1423
25°	1348	1384	1424
30°	1325	1370	1414
35°	1299	1350	1393
40°	1268	1323	1365
45°	1229	1286	1326
50°	1185	1241	1279
55°	1131	1182	1217
60°	1066	1106	1133
65°	968	1000	1019
70°	850	869	881
75°	717	728	733
80°	573	581	566
85°	386	401	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	3.5
10°-20°	283.2	10.2
20°-30°	429.6	15.4
30°-40°	512.9	18.4
40°-50°	519.3	18.6
50°-60°	448.9	16.1
60°-70°	311.1	11.2
70°-80°	150.5	5.4
80°-90°	33.1	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°	811.3	29.1
0°-40°	1324.2	47.5
0°-60°	2292.3	82.2
0°-90°	2787.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2787.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1035	1034	1033	1038	1040	98
15°	992	994	1001	1013	1018	280
25°	908	914	932	951	959	418
35°	791	798	822	843	848	494
45°	646	655	676	693	697	498
55°	482	487	504	525	519	431
65°	304	307	314	319	320	301
75°	138	139	140	139	141	148
85°	25	27	26	25	25	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039	1039	1039	1039	1039
2.5°	1039	1038	1036	1039	1041
5°	1035	1034	1033	1038	1040
7.5°	1028	1028	1029	1034	1036
10°	1018	1019	1021	1029	1031
12.5°	1006	1008	1013	1022	1026
15°	992	994	1001	1013	1018
17.5°	974	978	988	1002	1007
20°	954	959	972	988	994
22.5°	932	937	954	971	977
25°	908	914	932	951	959
27.5°	882	889	909	929	937
30°	853	861	882	903	910
32.5°	822	830	854	874	881
35°	791	798	822	843	848
37.5°	756	764	790	808	815
40°	722	730	753	771	777
42.5°	685	693	716	733	738
45°	646	655	676	693	697
47.5°	607	614	636	651	654
50°	566	573	593	608	611
52.5°	523	534	550	561	574
55°	482	487	504	525	519
57.5°	441	444	458	467	469
60°	396	400	411	416	421
62.5°	349	352	365	370	372
65°	304	307	314	319	320
67.5°	258	261	267	271	289
70°	216	218	221	229	224
72.5°	176	177	180	180	181
75°	138	139	140	139	141
77.5°	103	105	106	105	104
80°	74	76	75	73	73
82.5°	48	49	48	47	47
85°	25	27	26	25	25
87.5°	9	10	11	12	12
90°	0	0	0	0	0

(END OF REPORT)