

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: P258414

Luminaire Tested: **D3X-WD-80L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-80L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7357.6 lumens
Efficiency: N/A
Efficacy: 109.2 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

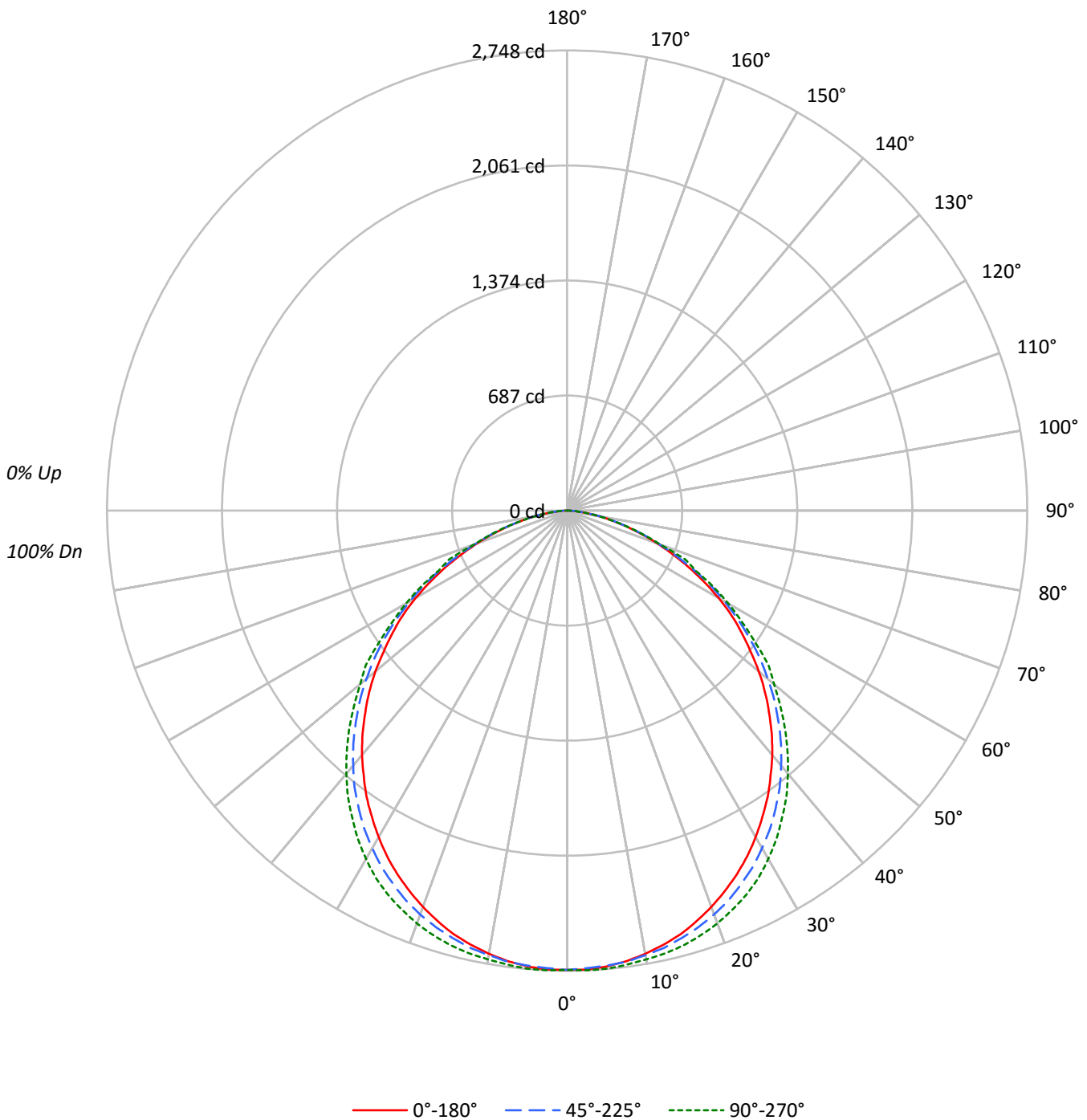
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3691	3691	3691
5°	3690	3683	3708
10°	3672	3682	3719
15°	3648	3681	3743
20°	3606	3674	3757
25°	3559	3653	3759
30°	3498	3617	3732
35°	3430	3564	3677
40°	3348	3491	3603
45°	3245	3396	3501
50°	3128	3277	3376
55°	2985	3121	3214
60°	2813	2920	2991
65°	2555	2639	2690
70°	2243	2295	2326
75°	1894	1921	1935
80°	1514	1534	1493
85°	1019	1059	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	3.5
10°-20°	747.5	10.2
20°-30°	1134.2	15.4
30°-40°	1354.1	18.4
40°-50°	1370.9	18.6
50°-60°	1185.0	16.1
60°-70°	821.3	11.2
70°-80°	397.4	5.4
80°-90°	87.4	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°	2141.7	29.1
0°-40°	3495.7	47.5
0°-60°	6051.6	82.2
0°-90°	7357.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7357.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2732	2730	2727	2740	2746	259
15°	2619	2624	2642	2674	2687	738
25°	2397	2413	2460	2510	2532	1104
35°	2088	2107	2170	2225	2239	1304
45°	1705	1729	1785	1830	1840	1315
55°	1272	1286	1330	1386	1370	1137
65°	802	810	829	842	845	794
75°	364	367	370	367	372	391
85°	66	71	69	66	66	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2742.9	2742.9	2742.9	2742.9	2742.9
2.5°	2742.9	2740.2	2734.9	2742.9	2748.1
5°	2732.3	2729.7	2727.0	2740.2	2745.5
7.5°	2713.8	2713.8	2716.5	2729.7	2734.9
10°	2687.4	2690.1	2695.3	2716.5	2721.7
12.5°	2655.7	2661.0	2674.2	2698.0	2708.5
15°	2618.8	2624.1	2642.5	2674.2	2687.4
17.5°	2571.3	2581.8	2608.2	2645.2	2658.4
20°	2518.5	2531.7	2566.0	2608.2	2624.1
22.5°	2460.4	2473.6	2518.5	2563.3	2579.2
25°	2397.0	2412.9	2460.4	2510.5	2531.7
27.5°	2328.4	2346.9	2399.7	2452.5	2473.6
30°	2251.8	2273.0	2328.4	2383.8	2402.3
32.5°	2170.0	2191.1	2254.5	2307.3	2325.8
35°	2088.2	2106.6	2170.0	2225.4	2238.6
37.5°	1995.8	2016.9	2085.5	2133.0	2151.5
40°	1906.0	1927.1	1987.8	2035.4	2051.2
42.5°	1808.3	1829.5	1890.2	1935.0	1948.2
45°	1705.4	1729.1	1784.6	1829.5	1840.0
47.5°	1602.4	1620.9	1679.0	1718.6	1726.5
50°	1494.2	1512.7	1565.5	1605.1	1613.0
52.5°	1380.7	1409.7	1451.9	1481.0	1515.3
55°	1272.4	1285.6	1330.5	1385.9	1370.1
57.5°	1164.2	1172.1	1209.1	1232.8	1238.1
60°	1045.4	1056.0	1085.0	1098.2	1111.4
62.5°	921.3	929.2	963.6	976.8	982.0
65°	802.5	810.5	828.9	842.1	844.8
67.5°	681.1	689.0	704.9	715.4	762.9
70°	570.2	575.5	583.4	604.5	591.3
72.5°	464.6	467.3	475.2	475.2	477.8
75°	364.3	366.9	369.6	366.9	372.2
77.5°	271.9	277.2	279.8	277.2	274.6
80°	195.4	200.6	198.0	192.7	192.7
82.5°	126.7	129.4	126.7	124.1	124.1
85°	66.0	71.3	68.6	66.0	66.0
87.5°	23.8	26.4	29.0	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)