

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: P258531

Luminaire Tested: **D3X-WO-80L835-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-80L835-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7836.7 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

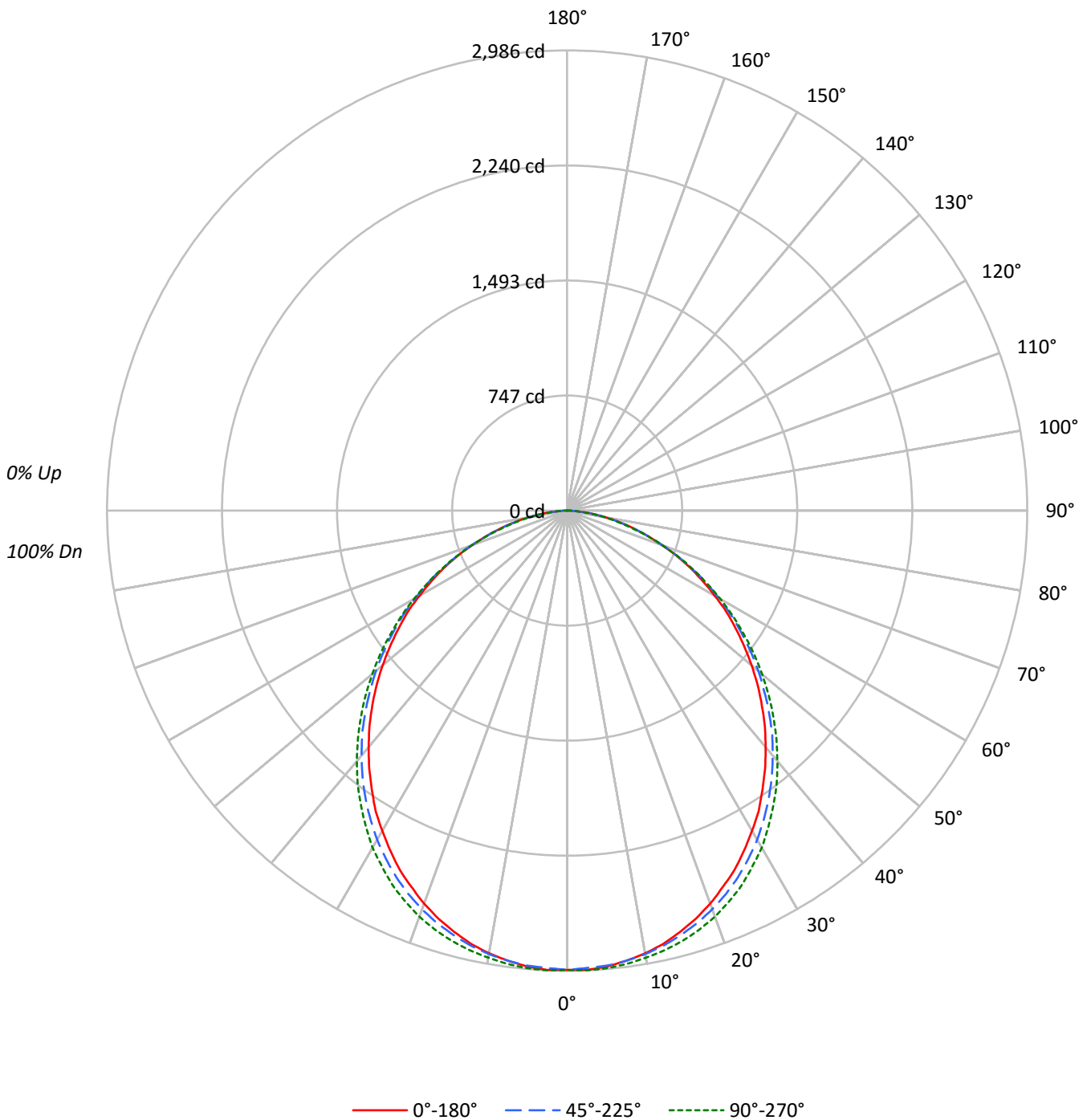
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258531

CATALOG NUMBER: D3X-WO-80L835-LD5-UNV-24-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P258531

CATALOG NUMBER: D3X-WO-80L835-LD5-UNV-24-T1-STD

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	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					100			
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4010	4010	4010
5°	4011	4004	4025
10°	3985	3993	4025
15°	3942	3971	4027
20°	3886	3942	4014
25°	3817	3896	3982
30°	3728	3831	3925
35°	3629	3746	3833
40°	3519	3645	3728
45°	3401	3526	3602
50°	3271	3393	3454
55°	3134	3232	3282
60°	2976	3055	3090
65°	2807	2849	2866
70°	2576	2607	2576
75°	2319	2306	2237
80°	1963	1943	1882
85°	1467	1426	1263



TEST NUMBER: P258531

CATALOG NUMBER: D3X-WO-80L835-LD5-UNV-24-T1-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	3.6
10°-20°	806.1	10.3
20°-30°	1208.6	15.4
30°-40°	1423.4	18.2
40°-50°	1423.6	18.2
50°-60°	1228.3	15.7
60°-70°	883.9	11.3
70°-80°	468.8	6.0
80°-90°	111.8	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°	2296.9	29.3
0°-40°	3720.3	47.5
0°-60°	6372.2	81.3
0°-90°	7836.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7836.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2980	2980	2980	2980	2980	
5°	2970	2967	2965	2975	2980	282
15°	2830	2838	2851	2880	2891	798
25°	2571	2587	2624	2669	2682	1183
35°	2210	2236	2281	2320	2334	1382
45°	1787	1811	1853	1885	1893	1379
55°	1336	1349	1378	1402	1399	1195
65°	882	884	895	900	900	872
75°	446	441	444	433	430	475
85°	95	95	92	84	82	115
90°	0	0	0	0	0	



TEST NUMBER: P258531

CATALOG NUMBER: D3X-WO-80L835-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2980.4	2980.4	2980.4	2980.4	2980.4
2.5°	2983.1	2977.8	2969.9	2980.4	2985.7
5°	2969.9	2967.2	2964.6	2975.2	2980.4
7.5°	2946.1	2948.8	2946.1	2962.0	2967.2
10°	2917.1	2919.7	2922.4	2940.8	2946.1
12.5°	2880.1	2882.8	2890.7	2914.5	2922.4
15°	2830.0	2837.9	2851.1	2880.1	2890.7
17.5°	2777.2	2787.7	2806.2	2840.5	2851.1
20°	2713.8	2727.0	2753.4	2790.4	2803.6
22.5°	2642.5	2655.7	2692.7	2732.3	2745.5
25°	2571.3	2587.1	2624.1	2668.9	2682.1
27.5°	2486.8	2507.9	2547.5	2592.4	2602.9
30°	2399.7	2418.1	2465.7	2507.9	2526.4
32.5°	2312.6	2331.0	2375.9	2418.1	2431.3
35°	2209.6	2236.0	2280.9	2320.5	2333.7
37.5°	2109.3	2133.0	2180.6	2220.2	2233.4
40°	2003.7	2024.8	2075.0	2111.9	2122.5
42.5°	1898.1	1919.2	1969.4	1998.4	2009.0
45°	1787.2	1811.0	1853.2	1884.9	1892.8
47.5°	1676.3	1694.8	1734.4	1763.5	1774.0
50°	1562.8	1581.3	1620.9	1644.7	1649.9
52.5°	1449.3	1462.5	1499.5	1520.6	1528.5
55°	1335.8	1349.0	1378.0	1401.8	1399.1
57.5°	1227.6	1232.8	1261.9	1277.7	1277.7
60°	1106.1	1111.4	1135.2	1145.7	1148.4
62.5°	992.6	1000.5	1019.0	1021.6	1021.6
65°	881.7	884.4	894.9	900.2	900.2
67.5°	770.9	768.2	778.8	778.8	776.1
70°	654.7	660.0	662.6	657.3	654.7
72.5°	549.1	546.5	546.5	543.8	543.8
75°	446.1	440.9	443.5	432.9	430.3
77.5°	351.1	343.2	340.5	335.3	330.0
80°	253.4	253.4	250.8	245.5	242.9
82.5°	169.0	169.0	166.3	161.0	155.8
85°	95.0	95.0	92.4	84.5	81.8
87.5°	31.7	31.7	31.7	31.7	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)