

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: P258406

Luminaire Tested: **D3X-WD-74L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258406
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-74L830-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: 6516.7 lumens
Efficiency: N/A
Efficacy: 105.8 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

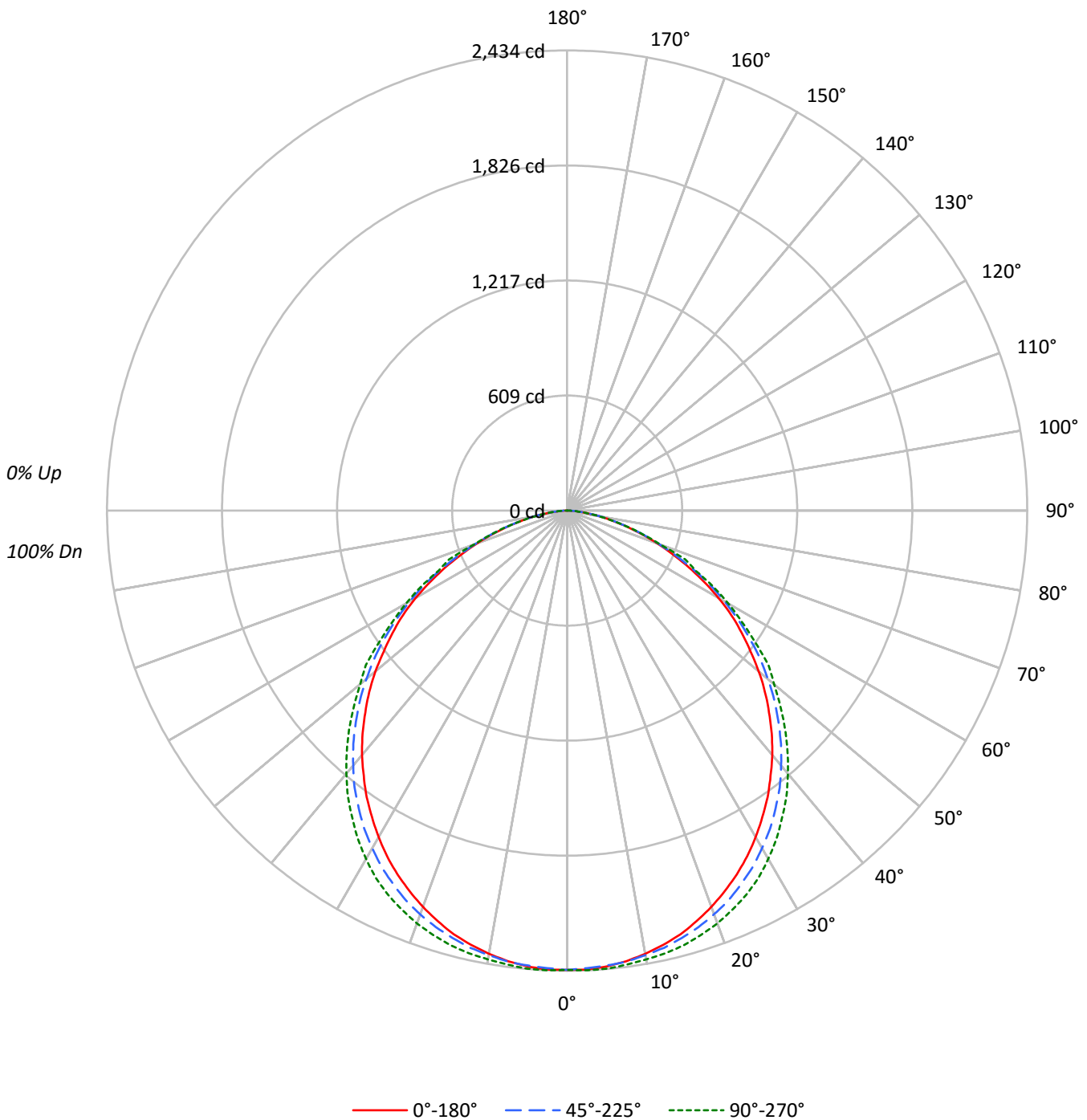
Input Watts (W): 61.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3269	3269	3269
5°	3269	3262	3284
10°	3252	3262	3294
15°	3231	3260	3316
20°	3194	3254	3328
25°	3152	3235	3329
30°	3099	3204	3306
35°	3038	3157	3257
40°	2965	3092	3191
45°	2874	3008	3101
50°	2770	2902	2990
55°	2644	2764	2847
60°	2492	2586	2649
65°	2263	2337	2382
70°	1987	2033	2061
75°	1678	1701	1714
80°	1340	1359	1323
85°	903	939	903



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	3.5
10°-20°	662.1	10.2
20°-30°	1004.6	15.4
30°-40°	1199.3	18.4
40°-50°	1214.2	18.6
50°-60°	1049.5	16.1
60°-70°	727.4	11.2
70°-80°	352.0	5.4
80°-90°	77.4	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°	1896.9	29.1
0°-40°	3096.2	47.5
0°-60°	5359.9	82.2
0°-90°	6516.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6516.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2420	2418	2415	2427	2432	230
15°	2320	2324	2340	2369	2380	654
25°	2123	2137	2179	2224	2242	978
35°	1850	1866	1922	1971	1983	1155
45°	1510	1532	1581	1620	1630	1165
55°	1127	1139	1178	1228	1214	1007
65°	711	718	734	746	748	703
75°	323	325	327	325	330	346
85°	58	63	61	58	58	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2429.4	2427.0	2422.3	2429.4	2434.0
5°	2420.0	2417.7	2415.3	2427.0	2431.7
7.5°	2403.6	2403.6	2406.0	2417.7	2422.3
10°	2380.3	2382.6	2387.3	2406.0	2410.7
12.5°	2352.2	2356.9	2368.6	2389.6	2399.0
15°	2319.5	2324.1	2340.5	2368.6	2380.3
17.5°	2277.4	2286.7	2310.1	2342.9	2354.5
20°	2230.6	2242.3	2272.7	2310.1	2324.1
22.5°	2179.2	2190.9	2230.6	2270.4	2284.4
25°	2123.1	2137.1	2179.2	2223.6	2242.3
27.5°	2062.3	2078.6	2125.4	2172.2	2190.9
30°	1994.5	2013.2	2062.3	2111.4	2127.7
32.5°	1922.0	1940.7	1996.8	2043.6	2059.9
35°	1849.5	1865.9	1922.0	1971.1	1982.8
37.5°	1767.7	1786.4	1847.2	1889.2	1905.6
40°	1688.2	1706.9	1760.6	1802.7	1816.8
42.5°	1601.7	1620.4	1674.1	1713.9	1725.6
45°	1510.5	1531.5	1580.6	1620.4	1629.7
47.5°	1419.3	1435.6	1487.1	1522.2	1529.2
50°	1323.4	1339.8	1386.5	1421.6	1428.6
52.5°	1222.9	1248.6	1286.0	1311.7	1342.1
55°	1127.0	1138.7	1178.4	1227.5	1213.5
57.5°	1031.1	1038.1	1070.9	1091.9	1096.6
60°	925.9	935.3	961.0	972.7	984.4
62.5°	816.0	823.0	853.4	865.1	869.8
65°	710.8	717.8	734.2	745.9	748.2
67.5°	603.2	610.3	624.3	633.6	675.7
70°	505.0	509.7	516.7	535.4	523.8
72.5°	411.5	413.9	420.9	420.9	423.2
75°	322.7	325.0	327.3	325.0	329.7
77.5°	240.8	245.5	247.8	245.5	243.2
80°	173.0	177.7	175.4	170.7	170.7
82.5°	112.2	114.6	112.2	109.9	109.9
85°	58.5	63.1	60.8	58.5	58.5
87.5°	21.0	23.4	25.7	28.1	28.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)