

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: P258496

Luminaire Tested: **D3X-WO-45L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258496
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-45L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4422.4 lumens
Efficiency: N/A
Efficacy: 130.1 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

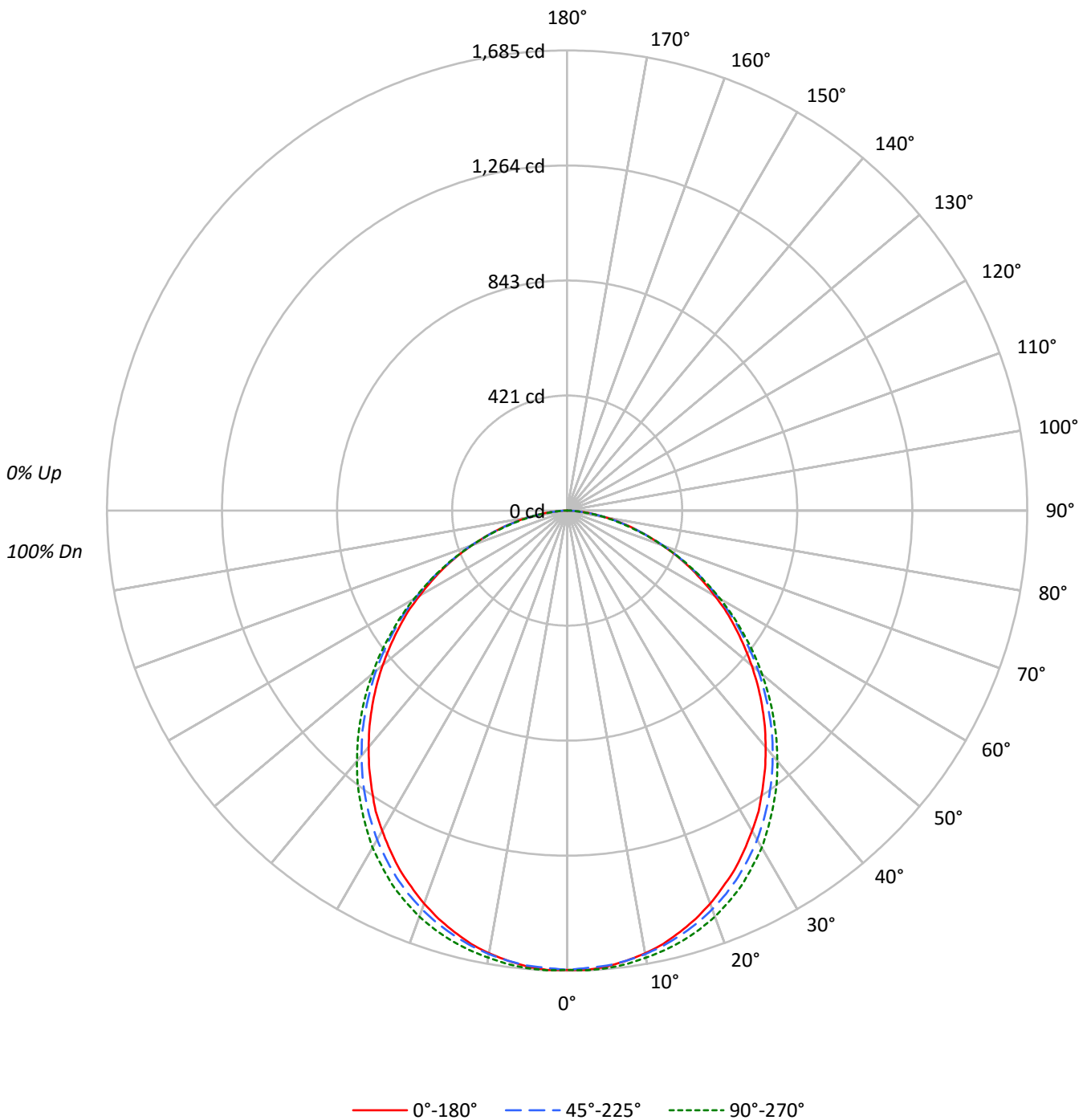
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	2263	2263	2263
5°	2264	2260	2272
10°	2249	2253	2271
15°	2225	2241	2272
20°	2193	2225	2265
25°	2154	2198	2247
30°	2104	2162	2215
35°	2048	2114	2163
40°	1986	2057	2104
45°	1919	1990	2032
50°	1846	1915	1949
55°	1768	1824	1852
60°	1680	1724	1744
65°	1584	1608	1617
70°	1454	1471	1454
75°	1309	1301	1262
80°	1108	1096	1062
85°	827	804	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.6
10°-20°	454.9	10.3
20°-30°	682.0	15.4
30°-40°	803.2	18.2
40°-50°	803.4	18.2
50°-60°	693.2	15.7
60°-70°	498.8	11.3
70°-80°	264.6	6.0
80°-90°	63.1	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°	1296.2	29.3
0°-40°	2099.4	47.5
0°-60°	3595.9	81.3
0°-90°	4422.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4422.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1676	1674	1673	1679	1682	159
15°	1597	1602	1609	1625	1631	450
25°	1451	1460	1481	1506	1514	667
35°	1247	1262	1287	1310	1317	780
45°	1009	1022	1046	1064	1068	778
55°	754	761	778	791	790	675
65°	498	499	505	508	508	492
75°	252	249	250	244	243	268
85°	54	54	52	48	46	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.9	1681.9	1681.9	1681.9	1681.9
2.5°	1683.4	1680.4	1676.0	1681.9	1684.9
5°	1676.0	1674.5	1673.0	1678.9	1681.9
7.5°	1662.5	1664.0	1662.5	1671.5	1674.5
10°	1646.2	1647.6	1649.1	1659.6	1662.5
12.5°	1625.3	1626.8	1631.3	1644.7	1649.1
15°	1597.0	1601.5	1608.9	1625.3	1631.3
17.5°	1567.2	1573.2	1583.6	1603.0	1608.9
20°	1531.4	1538.9	1553.8	1574.6	1582.1
22.5°	1491.2	1498.7	1519.5	1541.9	1549.3
25°	1451.0	1459.9	1480.8	1506.1	1513.6
27.5°	1403.3	1415.2	1437.6	1462.9	1468.9
30°	1354.2	1364.6	1391.4	1415.2	1425.7
32.5°	1305.0	1315.4	1340.8	1364.6	1372.0
35°	1246.9	1261.8	1287.1	1309.5	1316.9
37.5°	1190.3	1203.7	1230.5	1252.9	1260.3
40°	1130.7	1142.6	1170.9	1191.8	1197.7
42.5°	1071.1	1083.0	1111.3	1127.7	1133.7
45°	1008.6	1022.0	1045.8	1063.7	1068.1
47.5°	946.0	956.4	978.8	995.1	1001.1
50°	881.9	892.4	914.7	928.1	931.1
52.5°	817.9	825.3	846.2	858.1	862.6
55°	753.8	761.3	777.6	791.0	789.6
57.5°	692.7	695.7	712.1	721.0	721.0
60°	624.2	627.2	640.6	646.5	648.0
62.5°	560.1	564.6	575.0	576.5	576.5
65°	497.6	499.1	505.0	508.0	508.0
67.5°	435.0	433.5	439.5	439.5	438.0
70°	369.5	372.4	373.9	370.9	369.5
72.5°	309.9	308.4	308.4	306.9	306.9
75°	251.8	248.8	250.3	244.3	242.8
77.5°	198.1	193.7	192.2	189.2	186.2
80°	143.0	143.0	141.5	138.5	137.1
82.5°	95.3	95.3	93.9	90.9	87.9
85°	53.6	53.6	52.1	47.7	46.2
87.5°	17.9	17.9	17.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)