

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: P258440

Luminaire Tested: **D3X-WG-45L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-45L940-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

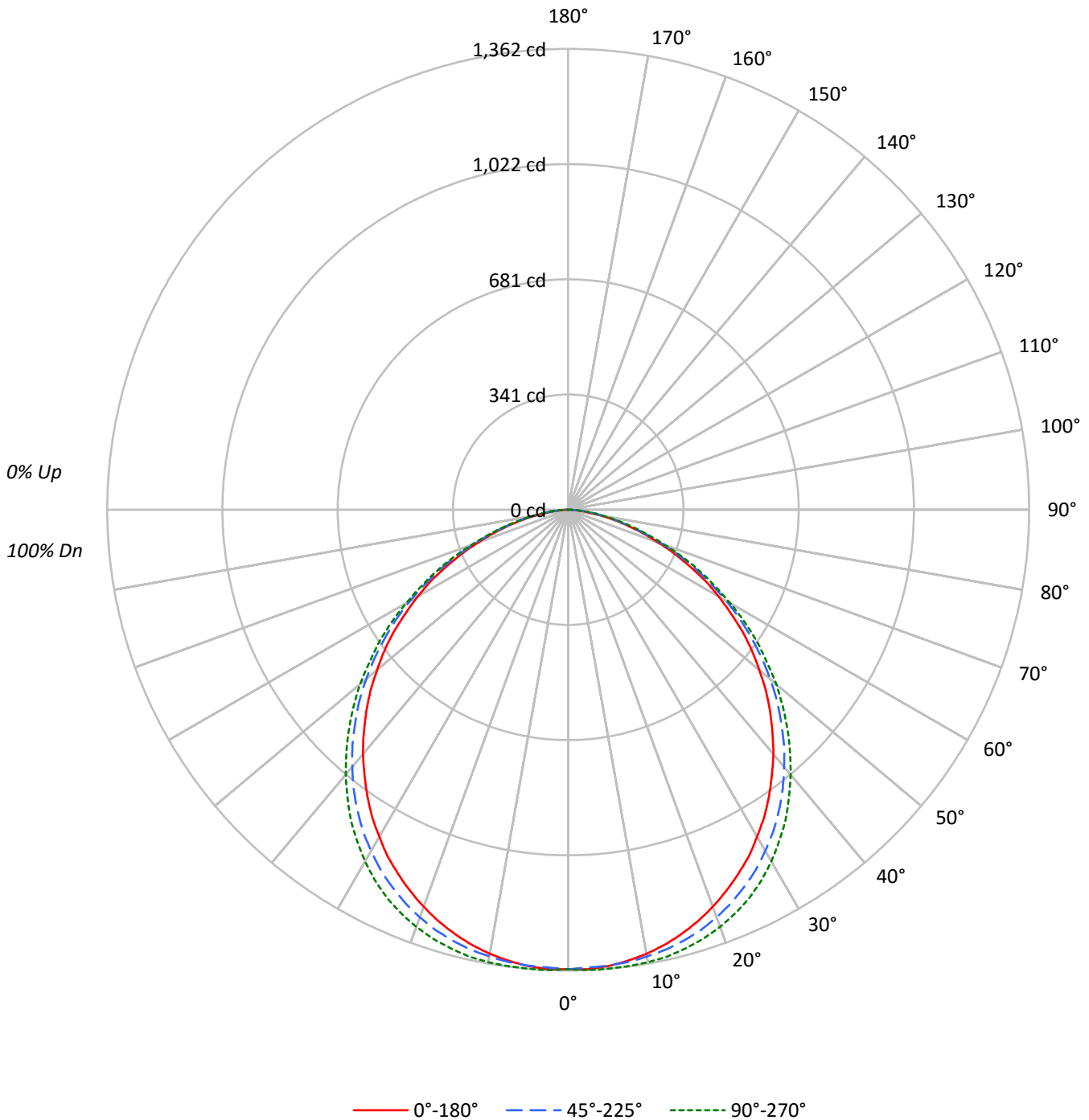
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1827	1827	1827
5°	1829	1827	1839
10°	1821	1832	1855
15°	1807	1837	1870
20°	1788	1835	1878
25°	1764	1827	1879
30°	1734	1809	1865
35°	1699	1783	1839
40°	1657	1743	1796
45°	1605	1693	1743
50°	1542	1631	1680
55°	1476	1550	1599
60°	1381	1452	1487
65°	1261	1328	1362
70°	1108	1165	1196
75°	937	985	1019
80°	745	816	836
85°	508	610	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.5
10°-20°	372.5	10.1
20°-30°	566.1	15.4
30°-40°	675.5	18.4
40°-50°	682.3	18.6
50°-60°	587.8	16.0
60°-70°	409.8	11.2
70°-80°	203.1	5.5
80°-90°	47.4	1.3
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°	1067.7	29.1
0°-40°	1743.2	47.5
0°-60°	3013.3	82.0
0°-90°	3673.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1354	1353	1353	1359	1362	129
15°	1298	1304	1318	1336	1342	366
25°	1188	1204	1230	1255	1266	547
35°	1034	1051	1086	1111	1120	646
45°	844	862	890	911	916	650
55°	629	642	661	676	682	561
65°	396	404	417	421	428	393
75°	180	183	190	193	196	194
85°	33	40	40	37	38	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.0	1358.0	1358.0	1358.0	1358.0
2.5°	1359.3	1356.7	1354.1	1359.3	1361.9
5°	1354.1	1352.7	1352.7	1359.3	1361.9
7.5°	1344.8	1344.8	1348.8	1358.0	1360.6
10°	1333.0	1335.6	1340.9	1354.1	1358.0
12.5°	1317.2	1322.5	1331.7	1347.5	1352.7
15°	1297.5	1304.0	1318.5	1335.6	1342.2
17.5°	1275.1	1284.3	1302.7	1322.5	1329.0
20°	1248.8	1260.6	1281.7	1304.0	1311.9
22.5°	1219.8	1234.3	1258.0	1281.7	1290.9
25°	1188.2	1204.0	1230.4	1255.4	1265.9
27.5°	1155.4	1171.1	1200.1	1225.1	1235.6
30°	1115.9	1134.3	1164.6	1190.9	1200.1
32.5°	1077.7	1096.1	1127.7	1151.4	1160.6
35°	1034.3	1051.4	1085.6	1110.6	1119.8
37.5°	988.2	1008.0	1040.9	1063.2	1071.1
40°	943.5	960.6	992.2	1014.6	1022.4
42.5°	893.5	911.9	943.5	963.2	969.8
45°	843.5	861.9	889.5	910.6	915.9
47.5°	792.2	809.3	836.9	854.0	859.3
50°	736.9	752.7	779.0	796.1	802.7
52.5°	684.3	698.7	721.1	735.6	739.5
55°	629.0	642.2	660.6	676.4	681.6
57.5°	569.8	584.3	601.4	614.5	618.5
60°	513.2	525.0	539.5	551.4	552.7
62.5°	457.9	463.2	476.4	486.9	488.2
65°	396.1	404.0	417.1	421.1	427.7
67.5°	339.5	344.8	355.3	360.6	365.8
70°	281.6	285.5	296.1	302.7	304.0
72.5°	231.6	232.9	240.8	246.1	247.4
75°	180.3	182.9	189.5	193.4	196.1
77.5°	136.9	139.5	144.7	147.4	147.4
80°	96.1	100.0	105.3	106.6	107.9
82.5°	61.8	67.1	71.1	72.4	69.7
85°	32.9	39.5	39.5	36.8	38.2
87.5°	11.8	14.5	15.8	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)