

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: P258436

Luminaire Tested: **D3X-WG-45L835-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258436
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-45L835-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4158.8 lumens
Efficiency: N/A
Efficacy: 122.3 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

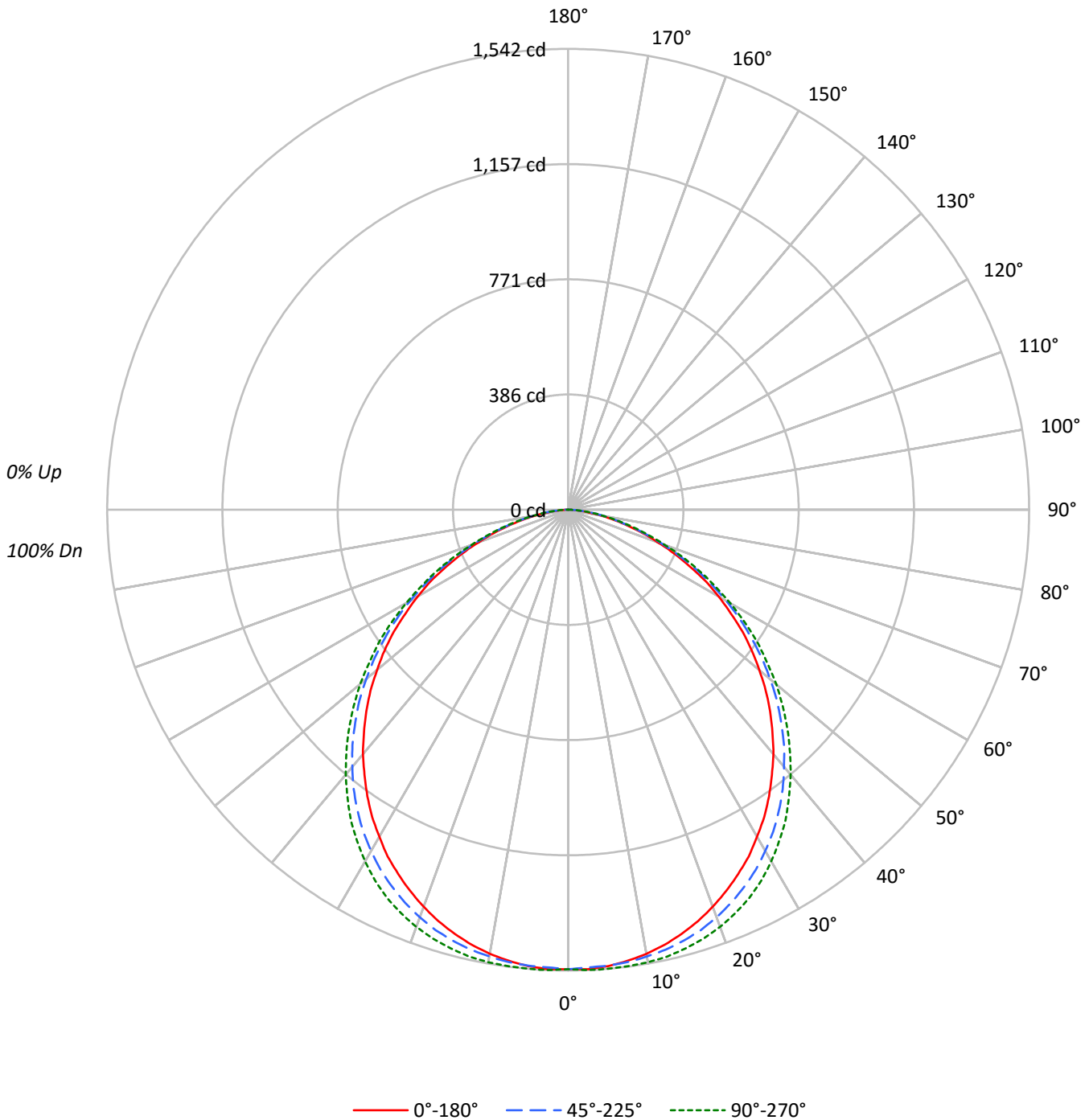
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2069	2069	2069
5°	2070	2068	2083
10°	2062	2074	2100
15°	2046	2079	2117
20°	2024	2078	2127
25°	1997	2068	2128
30°	1963	2048	2111
35°	1923	2019	2082
40°	1876	1973	2033
45°	1817	1916	1973
50°	1746	1846	1902
55°	1670	1754	1810
60°	1563	1644	1684
65°	1428	1503	1542
70°	1254	1319	1354
75°	1061	1115	1154
80°	843	924	947
85°	574	690	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.5
10°-20°	421.7	10.1
20°-30°	640.9	15.4
30°-40°	764.8	18.4
40°-50°	772.4	18.6
50°-60°	665.5	16.0
60°-70°	463.9	11.2
70°-80°	229.9	5.5
80°-90°	53.6	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°	1208.7	29.1
0°-40°	1973.5	47.5
0°-60°	3411.3	82.0
0°-90°	4158.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1533	1531	1531	1539	1542	146
15°	1469	1476	1493	1512	1520	414
25°	1345	1363	1393	1421	1433	620
35°	1171	1190	1229	1257	1268	732
45°	955	976	1007	1031	1037	736
55°	712	727	748	766	772	635
65°	448	457	472	477	484	445
75°	204	207	214	219	222	220
85°	37	45	45	42	43	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1538.9	1535.9	1532.9	1538.9	1541.9
5°	1532.9	1531.4	1531.4	1538.9	1541.9
7.5°	1522.5	1522.5	1527.0	1537.4	1540.4
10°	1509.1	1512.1	1518.0	1532.9	1537.4
12.5°	1491.2	1497.2	1507.6	1525.5	1531.4
15°	1468.9	1476.3	1492.7	1512.1	1519.5
17.5°	1443.6	1454.0	1474.8	1497.2	1504.6
20°	1413.8	1427.2	1451.0	1476.3	1485.3
22.5°	1381.0	1397.4	1424.2	1451.0	1461.4
25°	1345.2	1363.1	1392.9	1421.2	1433.1
27.5°	1308.0	1325.9	1358.6	1386.9	1398.9
30°	1263.3	1284.2	1318.4	1348.2	1358.6
32.5°	1220.1	1240.9	1276.7	1303.5	1313.9
35°	1170.9	1190.3	1229.0	1257.3	1267.8
37.5°	1118.8	1141.1	1178.4	1203.7	1212.6
40°	1068.1	1087.5	1123.3	1148.6	1157.5
42.5°	1011.5	1032.4	1068.1	1090.5	1097.9
45°	954.9	975.8	1007.1	1030.9	1036.9
47.5°	896.8	916.2	947.5	966.8	972.8
50°	834.3	852.1	881.9	901.3	908.7
52.5°	774.7	791.0	816.4	832.8	837.2
55°	712.1	727.0	747.8	765.7	771.7
57.5°	645.1	661.4	680.8	695.7	700.2
60°	581.0	594.4	610.8	624.2	625.7
62.5°	518.4	524.4	539.3	551.2	552.7
65°	448.4	457.3	472.2	476.7	484.2
67.5°	384.4	390.3	402.2	408.2	414.1
70°	318.8	323.3	335.2	342.6	344.1
72.5°	262.2	263.7	272.6	278.6	280.1
75°	204.1	207.1	214.5	219.0	222.0
77.5°	154.9	157.9	163.9	166.9	166.9
80°	108.8	113.2	119.2	120.7	122.2
82.5°	70.0	76.0	80.4	81.9	79.0
85°	37.2	44.7	44.7	41.7	43.2
87.5°	13.4	16.4	17.9	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)