

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: P257454

Luminaire Tested: **D3X-WG-40L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L840-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (112) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

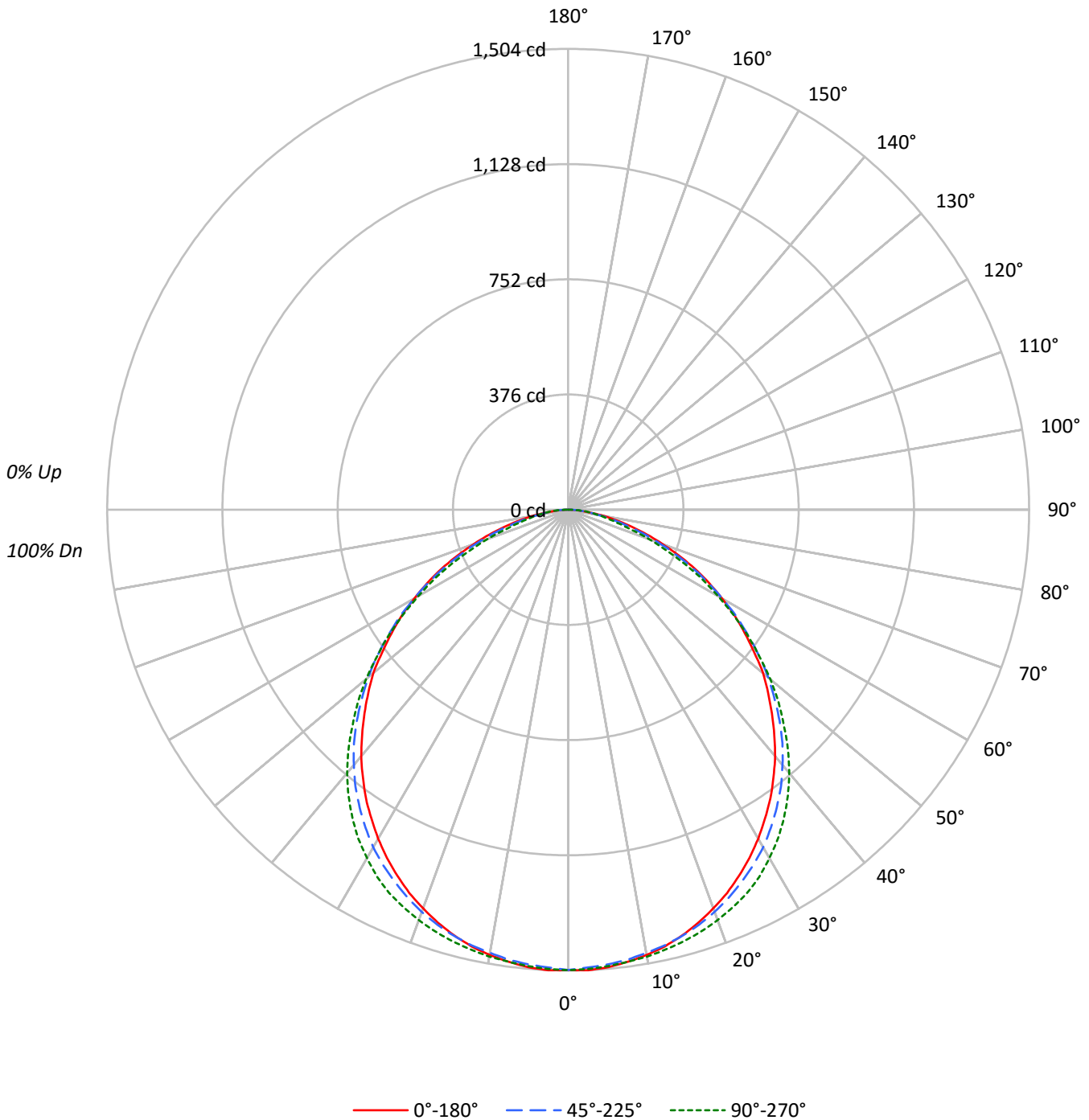
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4043	4043	4043
5°	4049	4025	4039
10°	4032	4013	4047
15°	4006	4011	4061
20°	3965	4001	4082
25°	3915	3978	4100
30°	3852	3952	4080
35°	3779	3897	4032
40°	3690	3822	3941
45°	3576	3712	3787
50°	3478	3567	3605
55°	3302	3369	3353
60°	3125	3125	3038
65°	2900	2832	2673
70°	2572	2460	2221
75°	2229	2024	1709
80°	1827	1578	1550
85°	1213	1433	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	3.6
10°-20°	407.8	10.2
20°-30°	619.7	15.5
30°-40°	742.0	18.6
40°-50°	748.4	18.7
50°-60°	637.5	16.0
60°-70°	435.9	10.9
70°-80°	208.7	5.2
80°-90°	52.8	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°	1169.5	29.3
0°-40°	1911.5	47.8
0°-60°	3297.4	82.5
0°-90°	3994.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1499	1497	1490	1497	1495	142
15°	1438	1434	1440	1456	1458	406
25°	1318	1320	1340	1370	1381	607
35°	1150	1154	1186	1220	1227	719
45°	940	947	975	995	995	726
55°	704	707	718	720	715	630
65°	456	447	445	429	420	449
75°	214	211	195	170	164	229
85°	39	43	46	48	50	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.4	1502.4	1502.4	1502.4	1502.4
2.5°	1504.2	1502.4	1495.3	1502.4	1500.6
5°	1498.8	1497.1	1489.9	1497.1	1495.3
7.5°	1488.1	1486.3	1481.0	1488.1	1488.1
10°	1475.6	1472.0	1468.5	1479.2	1481.0
12.5°	1459.5	1456.0	1456.0	1468.5	1470.3
15°	1438.1	1434.5	1439.9	1456.0	1457.8
17.5°	1413.1	1411.3	1420.2	1439.9	1443.5
20°	1384.5	1382.7	1397.0	1420.2	1425.6
22.5°	1354.1	1354.1	1370.2	1397.0	1404.2
25°	1318.4	1320.2	1339.8	1370.2	1380.9
27.5°	1280.9	1284.5	1307.7	1341.6	1350.6
30°	1239.8	1245.2	1272.0	1304.1	1313.0
32.5°	1195.1	1200.5	1230.9	1264.8	1273.7
35°	1150.5	1154.1	1186.2	1220.2	1227.3
37.5°	1100.5	1105.8	1139.8	1170.1	1177.3
40°	1050.4	1055.8	1088.0	1116.5	1121.9
42.5°	995.1	1002.2	1034.4	1057.6	1061.2
45°	939.7	946.8	975.4	995.1	995.1
47.5°	884.3	887.9	912.9	932.5	930.7
50°	830.7	828.9	852.1	861.1	861.1
52.5°	764.6	770.0	786.0	791.4	786.0
55°	703.9	707.4	718.2	719.9	714.6
57.5°	644.9	643.1	652.1	646.7	639.6
60°	580.6	580.6	580.6	575.2	564.5
62.5°	518.1	514.5	512.7	500.2	494.8
65°	455.5	446.6	444.8	428.8	419.8
67.5°	389.4	385.9	376.9	360.9	344.8
70°	326.9	323.3	312.6	293.0	282.3
72.5°	269.8	266.2	251.9	228.7	214.4
75°	214.4	210.8	194.7	169.7	164.4
77.5°	162.6	160.8	144.7	132.2	130.4
80°	117.9	116.1	101.8	101.8	100.0
82.5°	75.0	75.0	71.5	73.2	75.0
85°	39.3	42.9	46.4	48.2	50.0
87.5°	12.5	19.7	23.2	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)