

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: P220204

Luminaire Tested: **R3-WL-3L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-3L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5338.9 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

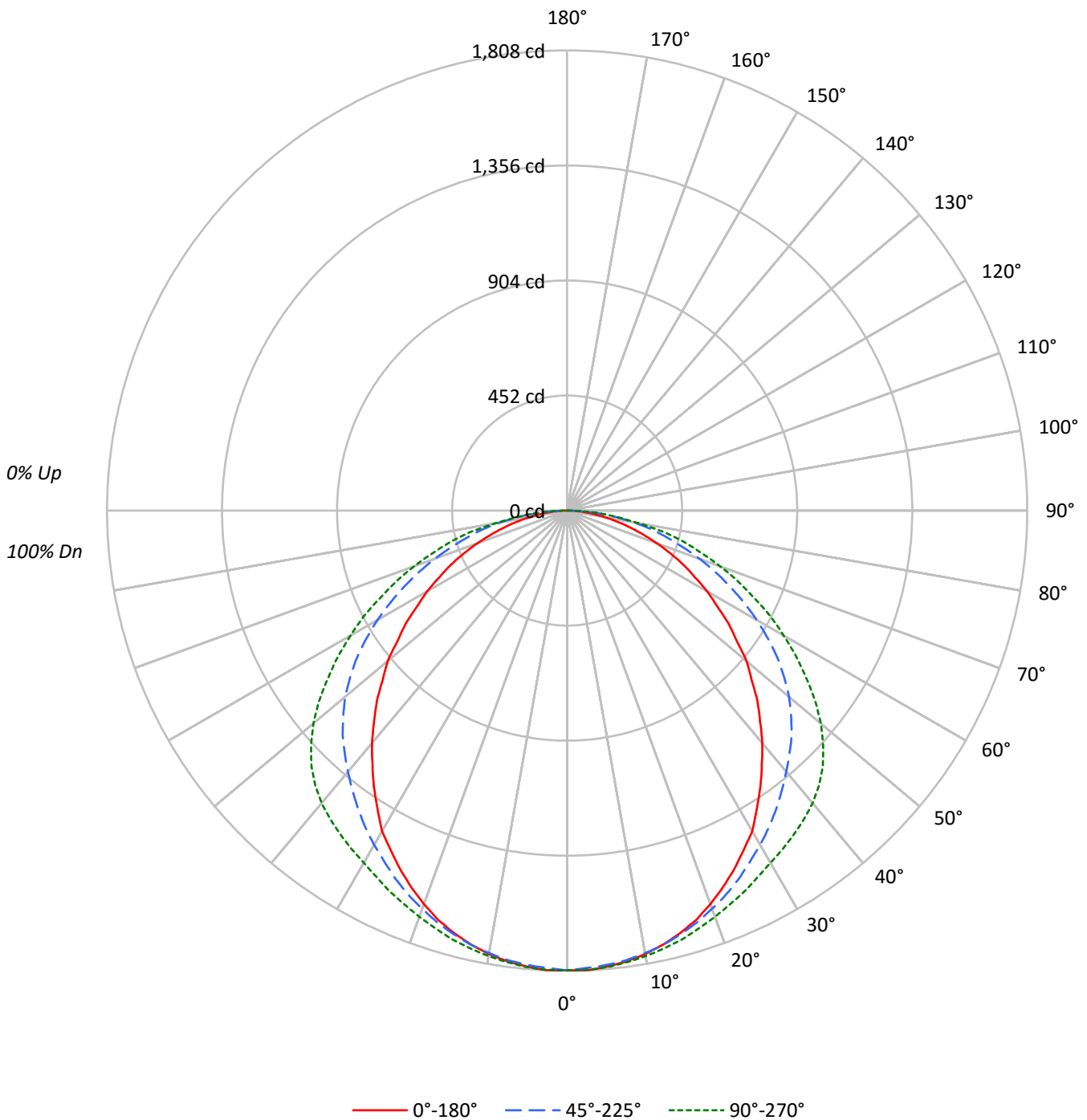
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2430	2430	2430
5°	2430	2420	2432
10°	2417	2412	2429
15°	2393	2400	2430
20°	2356	2384	2432
25°	2306	2369	2450
30°	2260	2356	2482
35°	2174	2351	2552
40°	2095	2353	2635
45°	2011	2374	2704
50°	1927	2382	2723
55°	1816	2367	2690
60°	1707	2316	2644
65°	1604	2245	2577
70°	1474	2176	2517
75°	1332	2104	2462
80°	1164	2068	2204
85°	1010	1856	2046



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.2
10°-20°	487.7	9.1
20°-30°	737.6	13.8
30°-40°	899.6	16.8
40°-50°	957.4	17.9
50°-60°	877.6	16.4
60°-70°	674.6	12.6
70°-80°	408.7	7.7
80°-90°	125.0	2.3
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°	1396.0	26.1
0°-40°	2295.6	43.0
0°-60°	4130.6	77.4
0°-90°	5338.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5338.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1799	1797	1792	1801	1801	171
15°	1718	1720	1723	1739	1744	484
25°	1553	1566	1596	1635	1651	716
35°	1324	1356	1432	1520	1553	828
45°	1057	1106	1248	1380	1421	814
55°	774	841	1009	1119	1147	690
65°	504	567	705	790	809	498
75°	256	313	405	465	474	273
85°	65	97	120	134	132	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.1	1806.1	1806.1	1806.1	1806.1
2.5°	1807.9	1804.3	1799.0	1806.1	1806.1
5°	1799.0	1797.3	1792.0	1800.8	1800.8
7.5°	1786.7	1784.9	1781.4	1792.0	1790.2
10°	1769.0	1767.2	1765.5	1777.8	1777.8
12.5°	1746.0	1746.0	1747.8	1760.2	1761.9
15°	1717.8	1719.5	1723.1	1739.0	1744.3
17.5°	1685.9	1687.7	1696.5	1717.8	1721.3
20°	1645.3	1650.6	1664.7	1693.0	1698.3
22.5°	1601.1	1610.0	1632.9	1664.7	1673.6
25°	1553.4	1565.8	1595.8	1634.7	1650.6
27.5°	1502.1	1516.3	1555.2	1604.6	1622.3
30°	1454.4	1468.6	1516.3	1578.1	1597.6
32.5°	1387.3	1412.0	1475.6	1548.1	1576.4
35°	1323.7	1355.5	1431.5	1519.8	1553.4
37.5°	1256.5	1297.1	1385.5	1493.3	1528.7
40°	1192.9	1235.3	1339.6	1459.7	1500.4
42.5°	1122.2	1171.7	1293.6	1422.6	1465.0
45°	1056.8	1106.3	1247.7	1380.2	1420.9
47.5°	982.6	1040.9	1192.9	1330.7	1364.3
50°	920.7	975.5	1138.1	1265.3	1300.7
52.5°	839.4	911.9	1074.5	1194.7	1228.2
55°	774.0	841.2	1009.1	1118.7	1146.9
57.5°	698.1	779.4	934.9	1042.7	1067.4
60°	634.4	705.1	860.6	959.6	982.6
62.5°	565.5	641.5	782.9	874.8	901.3
65°	503.7	567.3	705.1	790.0	809.4
67.5°	438.3	503.7	629.1	706.9	726.3
70°	374.7	443.6	553.1	623.8	639.7
72.5°	312.8	372.9	475.4	544.3	553.1
75°	256.2	312.8	404.7	464.8	473.6
77.5°	203.2	254.5	337.5	385.3	388.8
80°	150.2	199.7	266.9	291.6	284.5
82.5°	106.0	144.9	194.4	199.7	196.2
85°	65.4	97.2	120.2	134.3	132.5
87.5°	28.3	44.2	61.9	58.3	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)