

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: P219956

Luminaire Tested: **R3-WL-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)
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-14
Description: CLASS R3 1X4 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: 4302.1 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

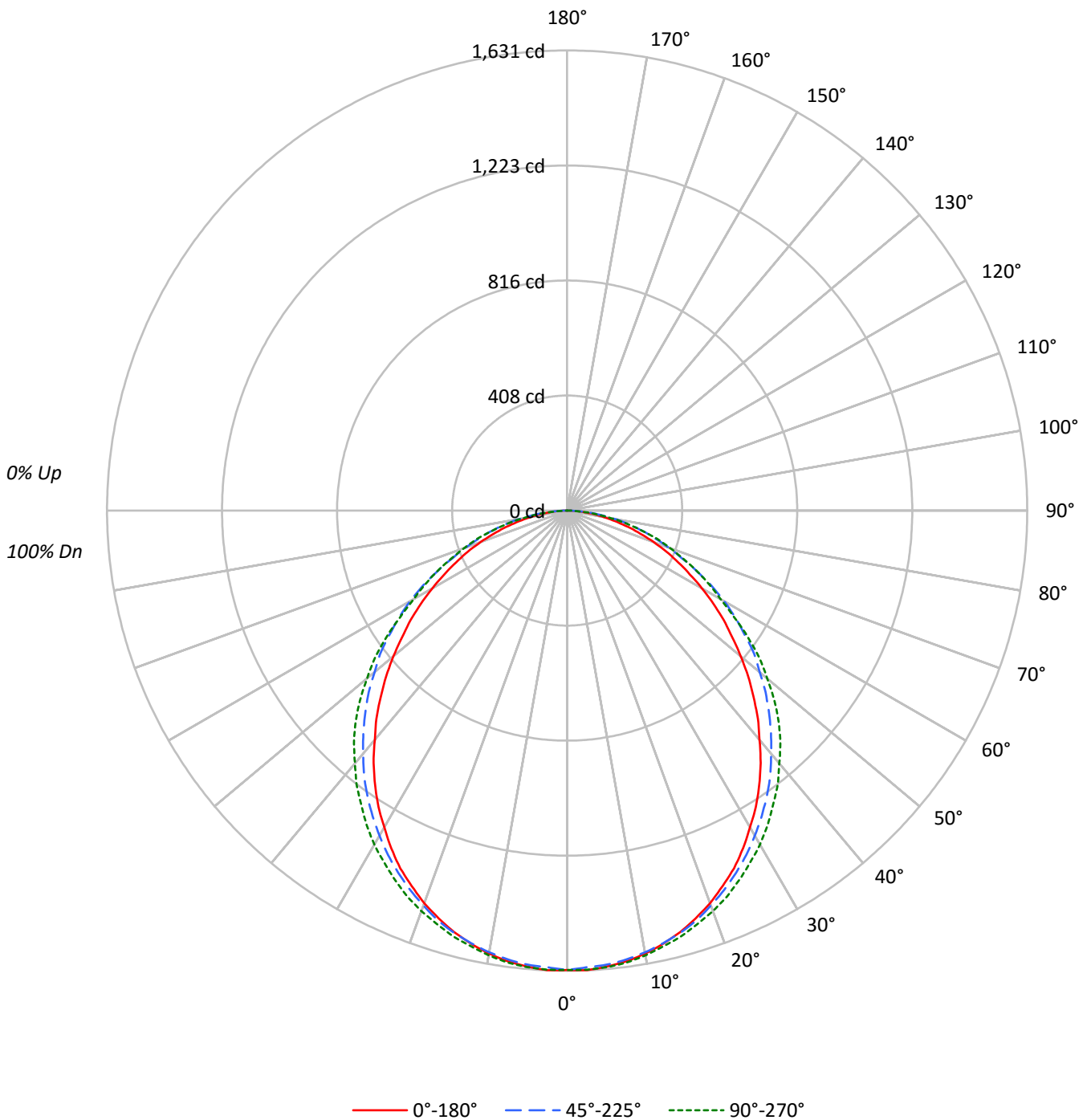
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4383	4383	4383
5°	4382	4364	4388
10°	4356	4345	4374
15°	4310	4316	4352
20°	4240	4265	4326
25°	4155	4206	4288
30°	4028	4135	4248
35°	3900	4055	4182
40°	3726	3952	4110
45°	3556	3849	4037
50°	3364	3732	3875
55°	3177	3609	3669
60°	2976	3460	3379
65°	2770	3220	3234
70°	2563	3001	3052
75°	2318	2852	2852
80°	2025	2656	2490
85°	1720	2183	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.6
10°-20°	438.1	10.2
20°-30°	654.3	15.2
30°-40°	771.0	17.9
40°-50°	774.7	18.0
50°-60°	670.2	15.6
60°-70°	484.8	11.3
70°-80°	278.7	6.5
80°-90°	76.4	1.8
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°	1246.3	29.0
0°-40°	2017.3	46.9
0°-60°	3462.2	80.5
0°-90°	4302.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4302.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1622	1622	1616	1624	1624	154
15°	1547	1549	1549	1562	1562	436
25°	1399	1404	1416	1440	1444	643
35°	1187	1202	1234	1266	1273	741
45°	934	962	1011	1052	1061	721
55°	677	709	769	793	782	605
65°	435	465	506	508	508	432
75°	223	246	274	283	274	236
85°	56	66	71	66	62	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.6	1628.6	1628.6	1628.6	1628.6
2.5°	1630.7	1628.6	1620.0	1628.6	1628.6
5°	1622.1	1622.1	1615.7	1624.3	1624.3
7.5°	1611.4	1609.3	1605.0	1613.6	1615.7
10°	1594.3	1594.3	1590.0	1600.7	1600.7
12.5°	1572.9	1572.9	1570.7	1583.6	1581.4
15°	1547.1	1549.3	1549.3	1562.1	1562.1
17.5°	1515.0	1519.3	1523.6	1538.6	1536.4
20°	1480.7	1485.0	1489.3	1508.6	1510.7
22.5°	1440.0	1446.4	1455.0	1478.6	1480.7
25°	1399.3	1403.6	1416.4	1440.0	1444.3
27.5°	1350.0	1358.6	1375.7	1403.6	1405.7
30°	1296.4	1311.4	1330.7	1360.7	1367.1
32.5°	1245.0	1257.9	1283.6	1315.7	1322.1
35°	1187.1	1202.1	1234.3	1266.4	1272.9
37.5°	1127.1	1142.1	1182.9	1217.1	1225.7
40°	1060.7	1082.1	1125.0	1163.6	1170.0
42.5°	1000.7	1020.0	1069.3	1107.9	1118.6
45°	934.3	962.1	1011.4	1052.1	1060.7
47.5°	870.0	895.7	953.6	992.1	996.4
50°	803.6	835.7	891.4	930.0	925.7
52.5°	737.1	771.4	835.7	859.3	859.3
55°	677.1	709.3	769.3	792.9	782.1
57.5°	615.0	649.3	707.1	722.1	700.7
60°	552.9	585.0	642.9	640.7	627.9
62.5°	490.7	525.0	576.4	572.1	567.9
65°	435.0	465.0	505.7	507.9	507.9
67.5°	381.4	411.4	439.3	450.0	443.6
70°	325.7	355.7	381.4	392.1	387.9
72.5°	272.1	304.3	325.7	338.6	334.3
75°	222.9	246.4	274.3	282.9	274.3
77.5°	173.6	197.1	222.9	227.1	218.6
80°	130.7	150.0	171.4	167.1	160.7
82.5°	92.1	107.1	120.0	113.6	109.3
85°	55.7	66.4	70.7	66.4	62.1
87.5°	23.6	27.9	27.9	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)