

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: P220061

Luminaire Tested: **R3-WL-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-6L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4350.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

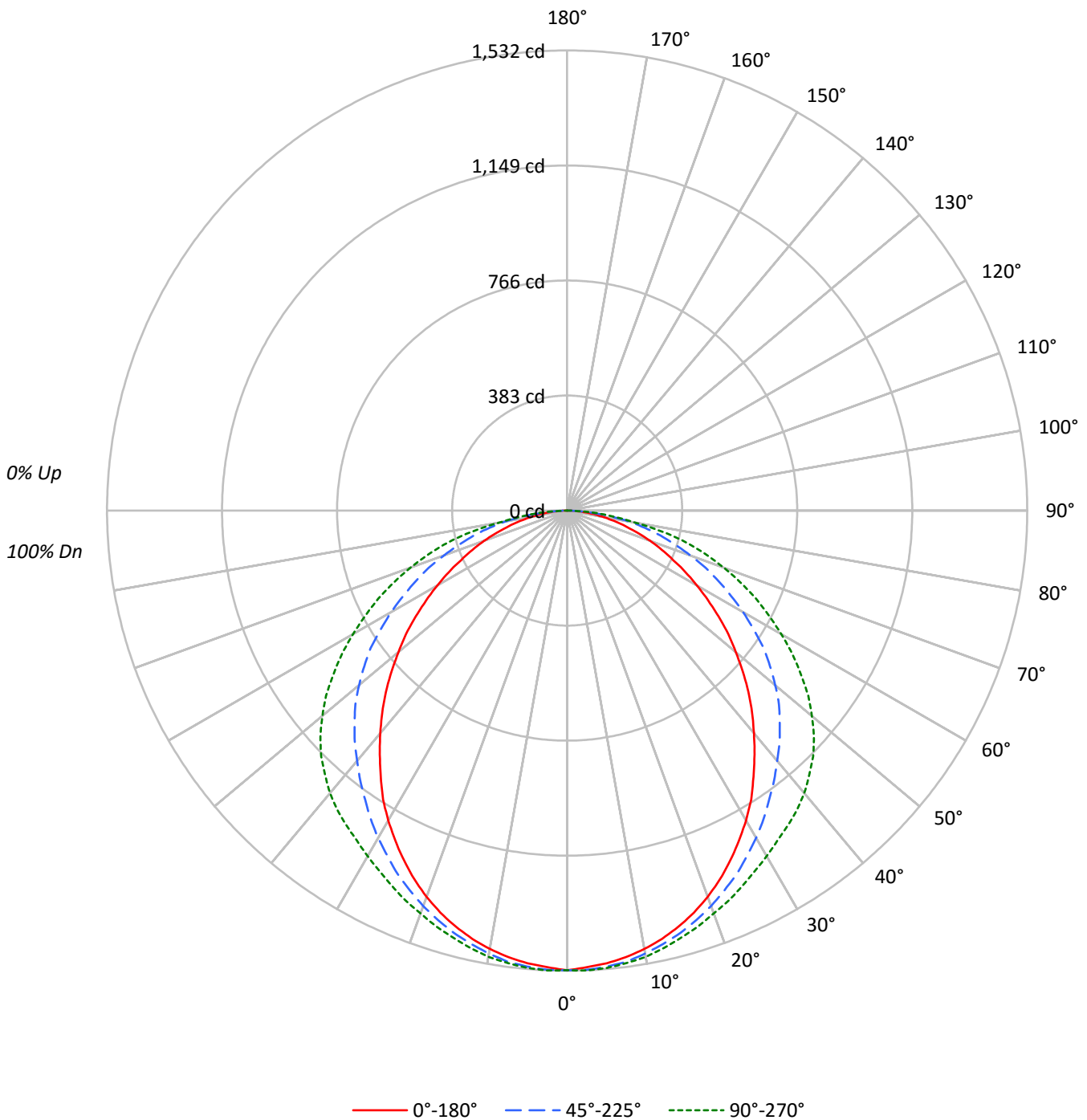
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4118	4118	4118
5°	4086	4116	4128
10°	4050	4092	4122
15°	3995	4056	4099
20°	3918	4012	4088
25°	3816	3965	4095
30°	3700	3911	4129
35°	3553	3855	4207
40°	3399	3822	4314
45°	3249	3808	4407
50°	3070	3785	4454
55°	2886	3749	4457
60°	2686	3641	4430
65°	2481	3541	4419
70°	2308	3428	4358
75°	2094	3346	4279
80°	1866	3223	3563
85°	1689	2569	3109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	3.3
10°-20°	410.3	9.4
20°-30°	614.6	14.1
30°-40°	737.8	17.0
40°-50°	773.1	17.8
50°-60°	704.3	16.2
60°-70°	543.7	12.5
70°-80°	330.0	7.6
80°-90°	92.6	2.1
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°	1169.4	26.9
0°-40°	1907.2	43.8
0°-60°	3384.6	77.8
0°-90°	4350.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4350.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1513	1517	1524	1528	1528	143
15°	1434	1443	1456	1469	1471	404
25°	1285	1300	1335	1366	1379	592
35°	1082	1108	1173	1250	1281	677
45°	854	891	1000	1114	1158	657
55°	615	666	799	908	950	551
65°	390	444	556	655	694	389
75°	201	241	322	390	412	214
85°	55	66	83	96	101	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.3	1530.3	1530.3	1530.3	1530.3
2.5°	1521.5	1523.7	1530.3	1532.5	1532.5
5°	1512.8	1517.1	1523.7	1528.1	1528.1
7.5°	1499.6	1504.0	1514.9	1519.3	1519.3
10°	1482.1	1488.7	1497.4	1506.2	1508.4
12.5°	1460.2	1466.8	1477.7	1488.7	1490.9
15°	1433.9	1442.7	1455.8	1469.0	1471.2
17.5°	1403.3	1412.1	1429.6	1447.1	1451.5
20°	1368.3	1377.0	1401.1	1423.0	1427.4
22.5°	1328.9	1342.0	1368.3	1396.7	1405.5
25°	1285.1	1300.4	1335.4	1366.1	1379.2
27.5°	1239.1	1256.6	1296.0	1337.6	1352.9
30°	1190.9	1208.5	1258.8	1307.0	1328.9
32.5°	1140.6	1158.1	1217.2	1278.5	1302.6
35°	1081.5	1107.8	1173.4	1250.1	1280.7
37.5°	1024.6	1055.2	1131.8	1221.6	1256.6
40°	967.6	1000.5	1088.0	1188.8	1228.2
42.5°	910.7	945.7	1046.5	1155.9	1193.1
45°	853.8	891.0	1000.5	1114.3	1158.1
47.5°	792.5	834.1	956.7	1068.3	1114.3
50°	733.4	779.4	904.2	1022.4	1064.0
52.5°	676.5	720.3	851.6	969.8	1011.4
55°	615.2	665.5	799.1	908.5	950.1
57.5°	556.1	608.6	735.6	849.4	888.8
60°	499.1	549.5	676.5	785.9	823.2
62.5°	444.4	497.0	615.2	720.3	757.5
65°	389.7	444.4	556.1	654.6	694.0
67.5°	341.5	389.7	499.1	591.1	623.9
70°	293.4	335.0	435.7	523.2	553.9
72.5°	245.2	286.8	376.5	455.4	483.8
75°	201.4	240.8	321.8	389.7	411.6
77.5°	159.8	194.8	264.9	319.6	326.2
80°	120.4	148.9	208.0	232.1	229.9
82.5°	87.6	107.3	140.1	157.6	157.6
85°	54.7	65.7	83.2	96.3	100.7
87.5°	24.1	28.5	35.0	37.2	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)