

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: P220060

Luminaire Tested: **R3-WL-5L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220060
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-5L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

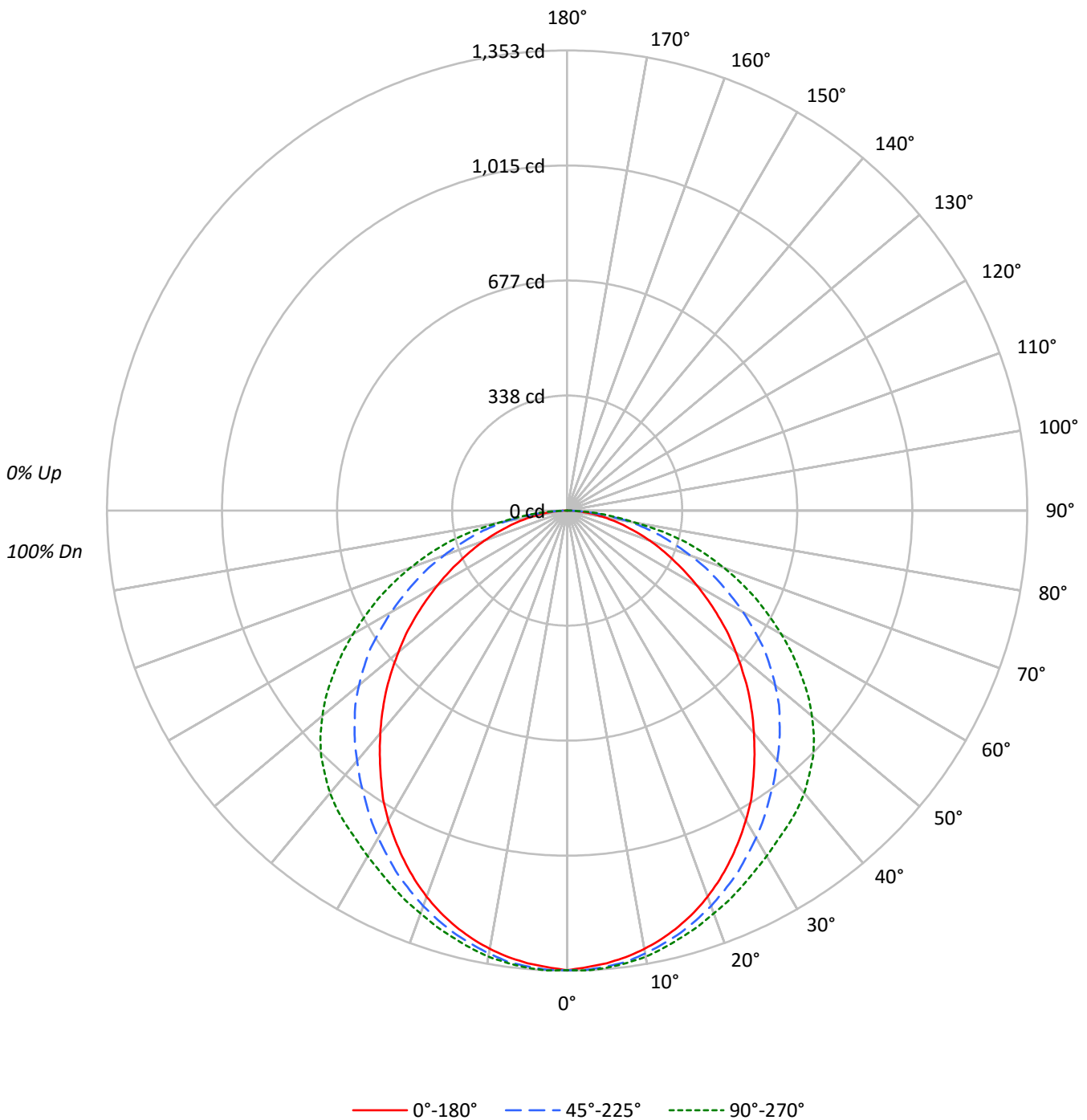
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3636	3636	3636
5°	3608	3635	3645
10°	3576	3613	3640
15°	3528	3582	3619
20°	3460	3543	3609
25°	3369	3501	3616
30°	3268	3454	3646
35°	3137	3404	3715
40°	3002	3375	3810
45°	2869	3362	3892
50°	2711	3342	3933
55°	2548	3310	3936
60°	2372	3215	3912
65°	2191	3126	3902
70°	2038	3027	3848
75°	1850	2955	3778
80°	1647	2847	3146
85°	1491	2269	2745



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.3
10°-20°	362.3	9.4
20°-30°	542.7	14.1
30°-40°	651.5	17.0
40°-50°	682.7	17.8
50°-60°	621.9	16.2
60°-70°	480.1	12.5
70°-80°	291.4	7.6
80°-90°	81.8	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°	1032.6	26.9
0°-40°	1684.1	43.8
0°-60°	2988.7	77.8
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1336	1340	1346	1349	1349	127
15°	1266	1274	1286	1297	1299	357
25°	1135	1148	1179	1206	1218	522
35°	955	978	1036	1104	1131	597
45°	754	787	884	984	1023	580
55°	543	588	706	802	839	486
65°	344	392	491	578	613	343
75°	178	213	284	344	363	189
85°	48	58	74	85	89	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.3	1351.3	1351.3	1351.3	1351.3
2.5°	1343.6	1345.5	1351.3	1353.2	1353.2
5°	1335.8	1339.7	1345.5	1349.4	1349.4
7.5°	1324.2	1328.1	1337.8	1341.6	1341.6
10°	1308.8	1314.6	1322.3	1330.0	1332.0
12.5°	1289.4	1295.2	1304.9	1314.6	1316.5
15°	1266.2	1274.0	1285.6	1297.2	1299.1
17.5°	1239.2	1246.9	1262.4	1277.8	1281.7
20°	1208.2	1216.0	1237.2	1256.6	1260.4
22.5°	1173.4	1185.0	1208.2	1233.4	1241.1
25°	1134.8	1148.3	1179.2	1206.3	1217.9
27.5°	1094.2	1109.6	1144.4	1181.2	1194.7
30°	1051.6	1067.1	1111.6	1154.1	1173.4
32.5°	1007.2	1022.6	1074.8	1129.0	1150.2
35°	955.0	978.2	1036.2	1103.8	1130.9
37.5°	904.7	931.8	999.5	1078.7	1109.6
40°	854.5	883.5	960.8	1049.7	1084.5
42.5°	804.2	835.1	924.1	1020.7	1053.6
45°	753.9	786.8	883.5	984.0	1022.6
47.5°	699.8	736.5	844.8	943.4	984.0
50°	647.6	688.2	798.4	902.8	939.5
52.5°	597.4	636.0	752.0	856.4	893.1
55°	543.2	587.7	705.6	802.3	839.0
57.5°	491.0	537.4	649.5	750.1	784.9
60°	440.8	485.2	597.4	694.0	726.9
62.5°	392.4	438.8	543.2	636.0	668.9
65°	344.1	392.4	491.0	578.0	612.8
67.5°	301.6	344.1	440.8	522.0	551.0
70°	259.0	295.8	384.7	462.0	489.1
72.5°	216.5	253.2	332.5	402.1	427.2
75°	177.9	212.6	284.2	344.1	363.4
77.5°	141.1	172.1	233.9	282.2	288.0
80°	106.3	131.5	183.7	204.9	203.0
82.5°	77.3	94.7	123.7	139.2	139.2
85°	48.3	58.0	73.5	85.1	88.9
87.5°	21.3	25.1	30.9	32.9	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)