

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: P220111

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-5L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3803.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

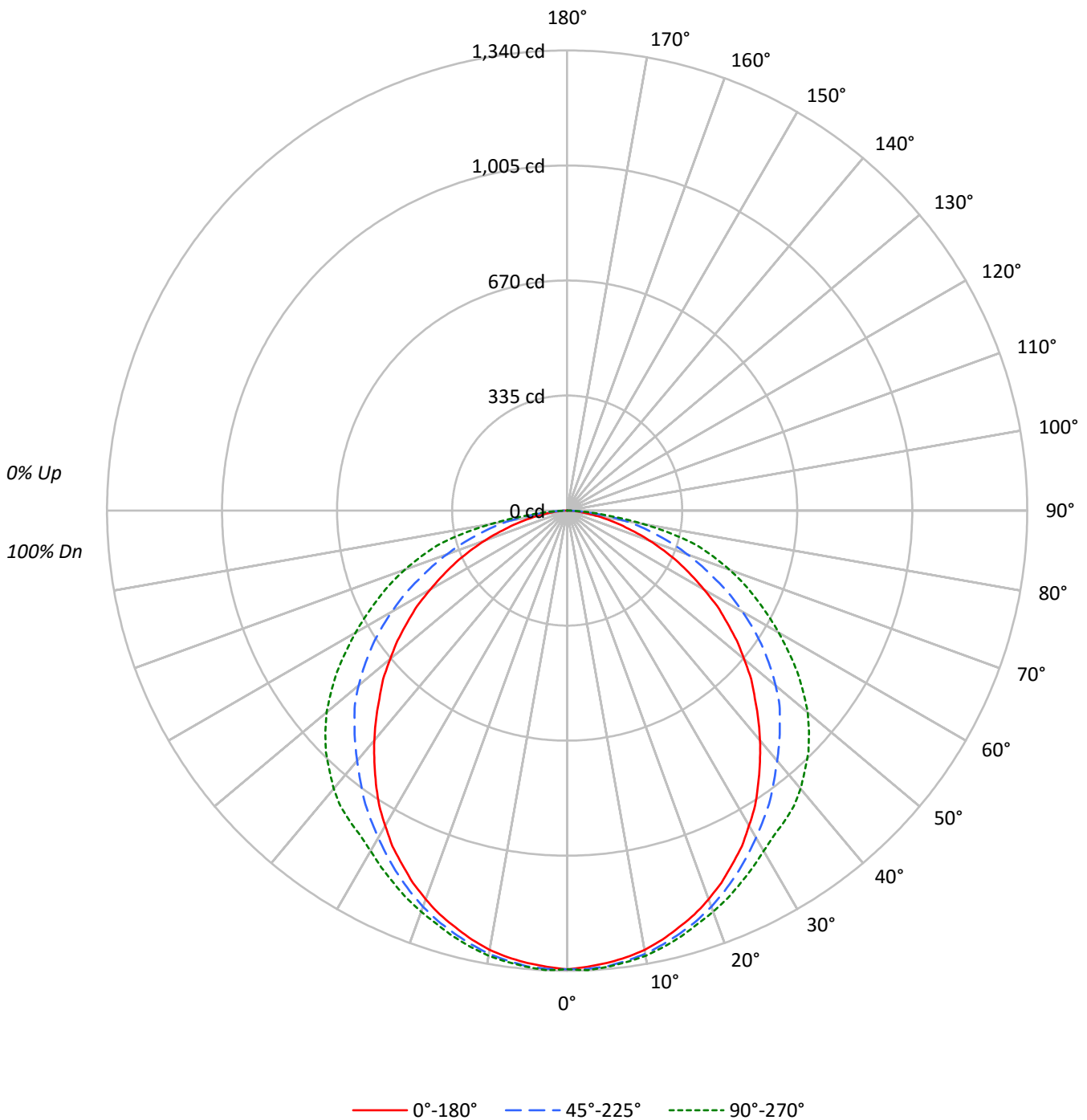
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	34	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°	3595	3595	3595
5°	3572	3598	3603
10°	3550	3581	3597
15°	3501	3549	3576
20°	3449	3515	3560
25°	3375	3467	3553
30°	3292	3418	3556
35°	3188	3385	3626
40°	3070	3341	3715
45°	2943	3333	3782
50°	2816	3318	3828
55°	2667	3265	3836
60°	2476	3173	3829
65°	2277	3053	3865
70°	2008	2936	3954
75°	1669	2794	4060
80°	1319	2607	3474
85°	895	1849	2328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.3
10°-20°	359.0	9.4
20°-30°	538.1	14.2
30°-40°	646.5	17.0
40°-50°	678.7	17.8
50°-60°	619.2	16.3
60°-70°	477.0	12.5
70°-80°	287.0	7.5
80°-90°	71.2	1.9
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°	1023.4	26.9
0°-40°	1669.9	43.9
0°-60°	2967.9	78.0
0°-90°	3803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3803.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1322	1326	1332	1334	1334	126
15°	1257	1262	1274	1282	1284	355
25°	1137	1146	1168	1189	1197	524
35°	970	986	1030	1079	1104	607
45°	773	798	876	959	994	598
55°	568	605	696	783	818	509
65°	358	396	479	568	607	353
75°	160	199	269	352	390	173
85°	29	42	60	70	75	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.8	1335.8	1335.8	1335.8	1335.8
2.5°	1330.0	1332.0	1335.8	1339.7	1339.7
5°	1322.3	1326.2	1332.0	1333.9	1333.9
7.5°	1312.6	1316.5	1322.3	1326.2	1326.2
10°	1299.1	1301.0	1310.7	1314.6	1316.5
12.5°	1279.8	1285.6	1293.3	1301.0	1301.0
15°	1256.6	1262.4	1274.0	1281.7	1283.6
17.5°	1233.4	1239.2	1252.7	1262.4	1262.4
20°	1204.4	1212.1	1227.6	1239.2	1243.0
22.5°	1173.4	1181.2	1198.6	1214.0	1221.8
25°	1136.7	1146.4	1167.6	1188.9	1196.6
27.5°	1101.9	1109.6	1134.8	1163.8	1171.5
30°	1059.4	1071.0	1100.0	1132.8	1144.4
32.5°	1018.8	1030.4	1065.2	1103.8	1121.2
35°	970.5	985.9	1030.4	1078.7	1103.8
37.5°	922.1	939.5	989.8	1053.6	1084.5
40°	873.8	893.1	951.1	1030.4	1057.5
42.5°	823.5	846.7	914.4	997.5	1024.6
45°	773.3	798.4	875.7	958.9	993.7
47.5°	726.9	752.0	839.0	922.1	955.0
50°	672.7	703.7	792.6	881.5	914.4
52.5°	622.5	651.5	744.3	833.2	866.1
55°	568.4	605.1	695.9	782.9	817.7
57.5°	518.1	551.0	643.7	728.8	763.6
60°	460.1	498.8	589.6	674.7	711.4
62.5°	407.9	446.6	537.4	620.6	659.2
65°	357.6	396.3	479.4	568.4	607.0
67.5°	305.4	346.0	425.3	516.2	556.8
70°	255.2	291.9	373.1	462.0	502.6
72.5°	204.9	243.6	320.9	407.9	446.6
75°	160.5	199.1	268.7	351.8	390.5
77.5°	121.8	152.7	220.4	290.0	313.2
80°	85.1	114.1	168.2	214.6	224.2
82.5°	54.1	77.3	110.2	135.3	133.4
85°	29.0	42.5	59.9	69.6	75.4
87.5°	13.5	15.5	19.3	25.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)