

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: P220089

Luminaire Tested: **R3-WG-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-5L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3840.2 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

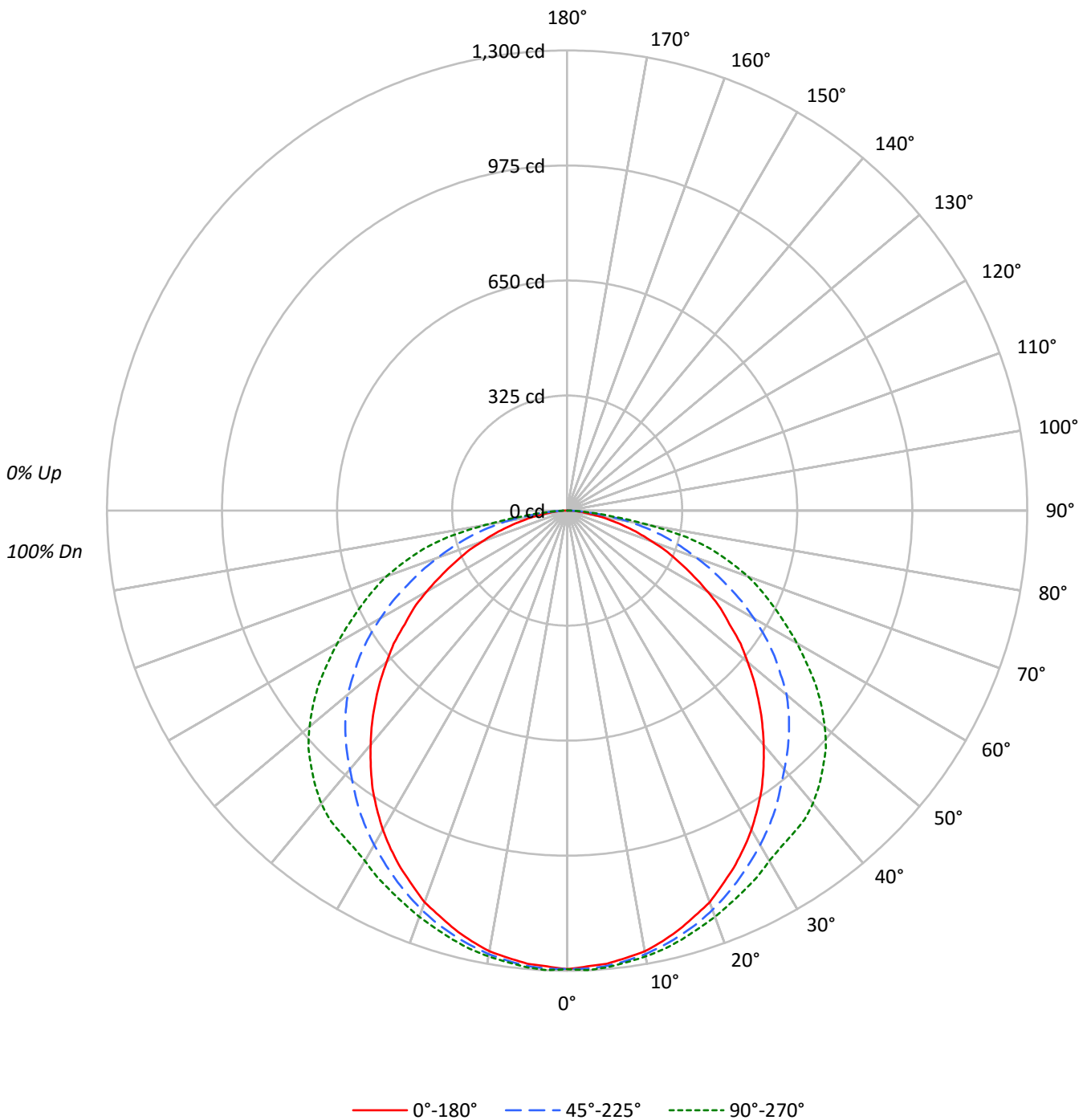
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	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	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3486	3486	3486
5°	3471	3488	3499
10°	3455	3477	3494
15°	3413	3459	3494
20°	3372	3437	3497
25°	3306	3411	3515
30°	3235	3389	3550
35°	3149	3373	3658
40°	3034	3353	3796
45°	2917	3373	3892
50°	2785	3390	3978
55°	2627	3354	4023
60°	2468	3280	4036
65°	2250	3170	4104
70°	2016	3056	4275
75°	1739	2964	4381
80°	1376	2721	3649
85°	1022	1785	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.2
10°-20°	350.1	9.1
20°-30°	529.7	13.8
30°-40°	645.3	16.8
40°-50°	687.4	17.9
50°-60°	635.0	16.5
60°-70°	495.0	12.9
70°-80°	303.3	7.9
80°-90°	71.9	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°	1002.4	26.1
0°-40°	1647.7	42.9
0°-60°	2970.1	77.3
0°-90°	3840.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1285	1287	1291	1293	1295	122
15°	1225	1229	1242	1252	1254	345
25°	1114	1124	1149	1173	1184	513
35°	959	975	1027	1085	1114	598
45°	766	797	886	988	1023	591
55°	560	609	715	818	857	504
65°	353	403	498	597	645	352
75°	167	204	285	378	421	178
85°	33	46	58	68	64	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1295.3	1295.3	1295.3	1295.3	1295.3
2.5°	1289.1	1291.2	1295.3	1297.4	1299.5
5°	1285.0	1287.1	1291.2	1293.3	1295.3
7.5°	1274.7	1278.8	1282.9	1287.1	1287.1
10°	1264.3	1266.4	1272.6	1276.7	1278.8
12.5°	1245.8	1249.9	1258.2	1266.4	1268.5
15°	1225.1	1229.2	1241.6	1252.0	1254.0
17.5°	1200.3	1208.6	1223.0	1233.4	1237.5
20°	1177.6	1183.8	1200.3	1214.8	1221.0
22.5°	1144.5	1154.9	1175.5	1194.1	1202.4
25°	1113.5	1123.9	1148.7	1173.4	1183.8
27.5°	1078.4	1090.8	1119.7	1154.9	1165.2
30°	1041.2	1053.6	1090.8	1130.1	1142.5
32.5°	999.9	1014.4	1059.8	1105.3	1125.9
35°	958.6	975.1	1026.8	1084.6	1113.5
37.5°	911.1	933.8	989.6	1066.0	1101.1
40°	863.6	888.3	954.5	1047.4	1080.5
42.5°	816.0	842.9	921.4	1018.5	1053.6
45°	766.5	797.4	886.3	987.5	1022.6
47.5°	716.9	749.9	849.1	952.4	991.6
50°	665.2	702.4	809.8	911.1	950.3
52.5°	617.7	652.8	760.3	865.6	904.9
55°	559.9	609.4	714.8	818.1	857.4
57.5°	514.4	551.6	663.2	764.4	801.6
60°	458.6	500.0	609.4	708.6	749.9
62.5°	404.9	452.4	555.7	652.8	696.2
65°	353.3	402.9	497.9	597.1	644.6
67.5°	307.8	351.2	444.2	545.4	595.0
70°	256.2	297.5	388.4	491.7	543.3
72.5°	210.7	252.0	336.7	438.0	481.4
75°	167.3	204.5	285.1	378.1	421.4
77.5°	126.0	161.1	229.3	309.9	345.0
80°	88.8	119.8	175.6	223.1	235.5
82.5°	59.9	82.6	111.6	134.3	132.2
85°	33.1	45.5	57.8	68.2	64.0
87.5°	12.4	14.5	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)