

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: P220084

Luminaire Tested: **R3-WG-6L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220084  
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-6L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4215.5 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

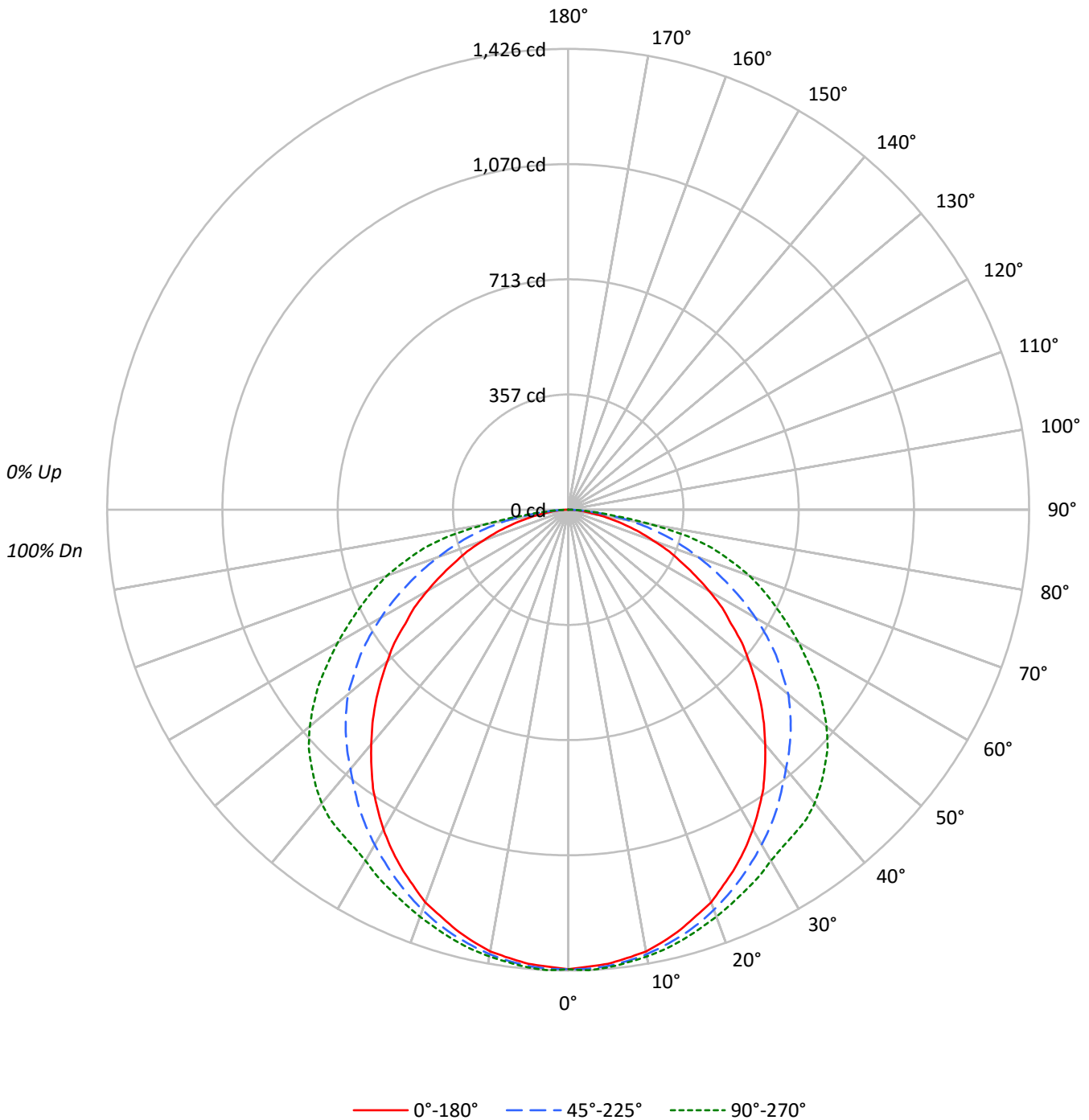
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P220084

CATALOG NUMBER: R3-WG-6L35-LD5-UNV-22

### Luminous Intensity Polar Plot





TEST NUMBER: P220084

CATALOG NUMBER: R3-WG-6L35-LD5-UNV-22

**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°	3826	3826	3826
5°	3810	3829	3841
10°	3792	3817	3836
15°	3746	3797	3835
20°	3702	3773	3838
25°	3630	3744	3858
30°	3552	3721	3897
35°	3457	3703	4016
40°	3330	3680	4167
45°	3202	3702	4272
50°	3057	3722	4367
55°	2883	3681	4416
60°	2710	3601	4430
65°	2469	3480	4506
70°	2212	3355	4692
75°	1910	3254	4810
80°	1511	2988	4006
85°	1121	1961	2171



TEST NUMBER: P220084

CATALOG NUMBER: R3-WG-6L35-LD5-UNV-22

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.5	3.2
10°-20°	384.3	9.1
20°-30°	581.5	13.8
30°-40°	708.4	16.8
40°-50°	754.6	17.9
50°-60°	697.0	16.5
60°-70°	543.4	12.9
70°-80°	332.9	7.9
80°-90°	78.9	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°	1100.4	26.1
0°-40°	1808.8	42.9
0°-60°	3260.4	77.3
0°-90°	4215.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4215.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1411	1413	1417	1420	1422	134
15°	1345	1349	1363	1374	1377	379
25°	1222	1234	1261	1288	1300	563
35°	1052	1070	1127	1191	1222	657
45°	841	875	973	1084	1123	649
55°	615	669	785	898	941	553
65°	388	442	546	655	708	386
75°	184	224	313	415	463	196
85°	36	50	64	75	70	45
90°	0	0	0	0	0	



TEST NUMBER: P220084

CATALOG NUMBER: R3-WG-6L35-LD5-UNV-22

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1421.9	1421.9	1421.9	1421.9	1421.9
2.5°	1415.1	1417.4	1421.9	1424.2	1426.5
5°	1410.6	1412.9	1417.4	1419.7	1421.9
7.5°	1399.3	1403.8	1408.3	1412.9	1412.9
10°	1387.9	1390.2	1397.0	1401.5	1403.8
12.5°	1367.5	1372.0	1381.1	1390.2	1392.5
15°	1344.8	1349.4	1363.0	1374.3	1376.6
17.5°	1317.6	1326.7	1342.6	1353.9	1358.4
20°	1292.7	1299.5	1317.6	1333.5	1340.3
22.5°	1256.4	1267.7	1290.4	1310.8	1319.9
25°	1222.4	1233.7	1260.9	1288.1	1299.5
27.5°	1183.8	1197.4	1229.2	1267.7	1279.1
30°	1143.0	1156.6	1197.4	1240.5	1254.1
32.5°	1097.6	1113.5	1163.4	1213.3	1236.0
35°	1052.3	1070.4	1127.1	1190.6	1222.4
37.5°	1000.1	1025.1	1086.3	1170.2	1208.8
40°	948.0	975.2	1047.7	1149.8	1186.1
42.5°	895.8	925.3	1011.5	1118.0	1156.6
45°	841.4	875.4	972.9	1084.0	1122.6
47.5°	786.9	823.2	932.1	1045.5	1088.6
50°	730.2	771.1	889.0	1000.1	1043.2
52.5°	678.1	716.6	834.6	950.2	993.3
55°	614.6	669.0	784.7	898.1	941.2
57.5°	564.7	605.5	728.0	839.1	879.9
60°	503.5	548.8	669.0	777.9	823.2
62.5°	444.5	496.7	610.0	716.6	764.3
65°	387.8	442.2	546.5	655.4	707.6
67.5°	337.9	385.5	487.6	598.7	653.1
70°	281.2	326.6	426.4	539.7	596.4
72.5°	231.3	276.7	369.7	480.8	528.4
75°	183.7	224.5	313.0	415.0	462.6
77.5°	138.3	176.9	251.7	340.2	378.7
80°	97.5	131.5	192.8	244.9	258.5
82.5°	65.8	90.7	122.5	147.4	145.1
85°	36.3	49.9	63.5	74.8	70.3
87.5°	13.6	15.9	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)