

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: P220078

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220078  
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-6L30-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4069.4 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

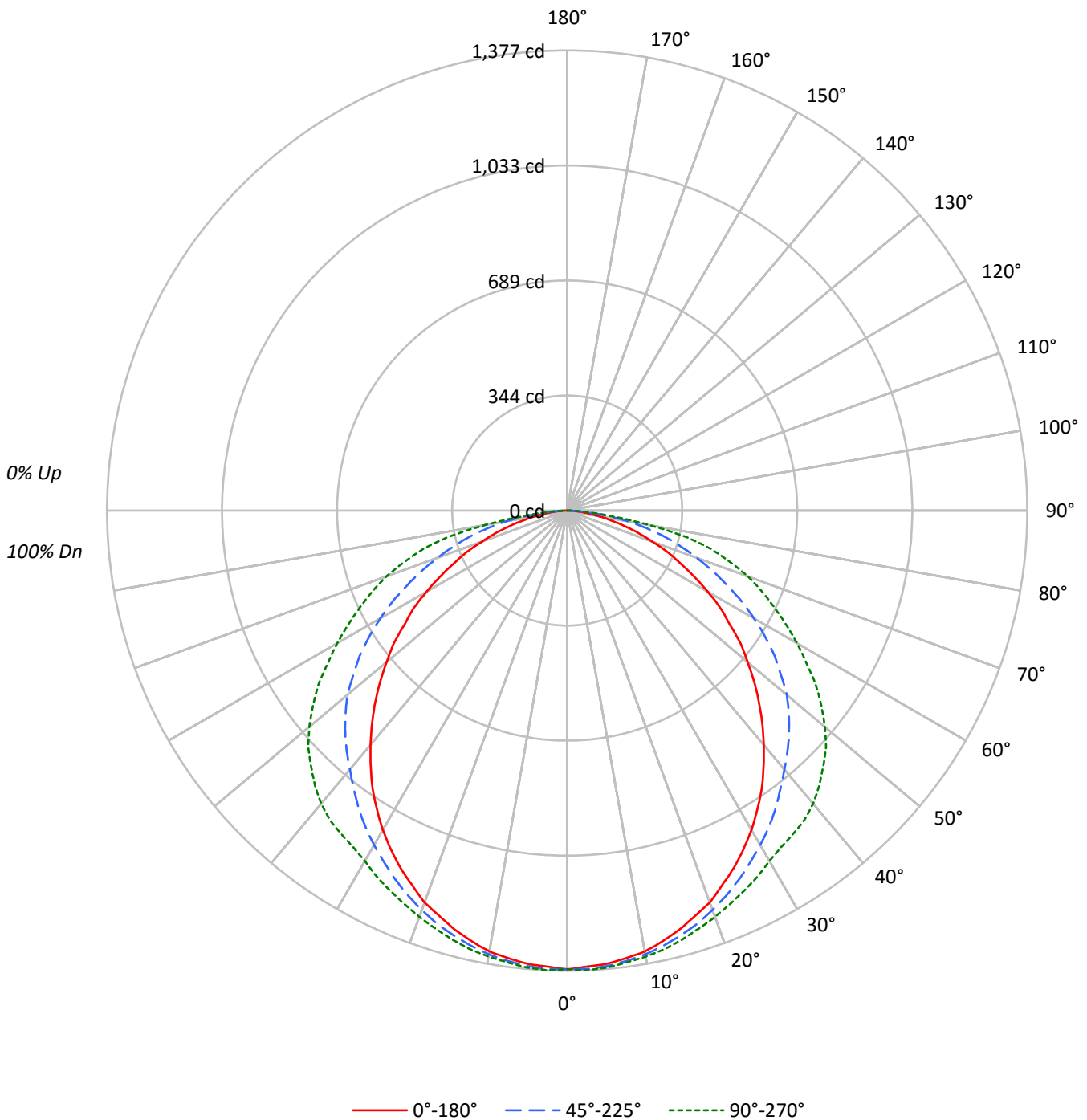
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37					37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	3694	3694	3694
5°	3678	3696	3708
10°	3661	3685	3703
15°	3617	3665	3702
20°	3574	3642	3705
25°	3504	3614	3725
30°	3429	3592	3762
35°	3337	3574	3876
40°	3215	3553	4022
45°	3091	3574	4124
50°	2951	3593	4216
55°	2784	3554	4262
60°	2616	3476	4277
65°	2384	3359	4349
70°	2136	3238	4530
75°	1843	3141	4643
80°	1458	2884	3868
85°	1081	1893	2096



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.9	3.2
10°-20°	371.0	9.1
20°-30°	561.4	13.8
30°-40°	683.8	16.8
40°-50°	728.4	17.9
50°-60°	672.9	16.5
60°-70°	524.5	12.9
70°-80°	321.4	7.9
80°-90°	76.2	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°	1062.2	26.1
0°-40°	1746.1	42.9
0°-60°	3147.3	77.3
0°-90°	4069.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1373	1373	1373	1373	1373	
5°	1362	1364	1368	1370	1373	129
15°	1298	1303	1316	1327	1329	366
25°	1180	1191	1217	1244	1254	543
35°	1016	1033	1088	1149	1180	634
45°	812	845	939	1046	1084	626
55°	593	646	758	867	908	534
65°	374	427	528	633	683	373
75°	177	217	302	401	447	189
85°	35	48	61	72	68	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1372.7	1372.7	1372.7	1372.7	1372.7
2.5°	1366.1	1368.3	1372.7	1374.8	1377.0
5°	1361.7	1363.9	1368.3	1370.5	1372.7
7.5°	1350.8	1355.1	1359.5	1363.9	1363.9
10°	1339.8	1342.0	1348.6	1352.9	1355.1
12.5°	1320.1	1324.5	1333.2	1342.0	1344.2
15°	1298.2	1302.6	1315.7	1326.7	1328.9
17.5°	1271.9	1280.7	1296.0	1307.0	1311.4
20°	1247.9	1254.4	1271.9	1287.3	1293.8
22.5°	1212.8	1223.8	1245.7	1265.4	1274.1
25°	1180.0	1190.9	1217.2	1243.5	1254.4
27.5°	1142.8	1155.9	1186.6	1223.8	1234.7
30°	1103.4	1116.5	1155.9	1197.5	1210.6
32.5°	1059.6	1074.9	1123.1	1171.2	1193.1
35°	1015.8	1033.3	1088.1	1149.3	1180.0
37.5°	965.5	989.5	1048.6	1129.6	1166.9
40°	915.1	941.4	1011.4	1109.9	1145.0
42.5°	864.7	893.2	976.4	1079.3	1116.5
45°	812.2	845.0	939.2	1046.5	1083.7
47.5°	759.7	794.7	899.8	1009.2	1050.8
50°	704.9	744.3	858.2	965.5	1007.0
52.5°	654.6	691.8	805.6	917.3	958.9
55°	593.3	645.8	757.5	866.9	908.5
57.5°	545.1	584.5	702.7	810.0	849.4
60°	486.0	529.8	645.8	750.9	794.7
62.5°	429.1	479.4	588.9	691.8	737.8
65°	374.4	426.9	527.6	632.7	683.0
67.5°	326.2	372.2	470.7	578.0	630.5
70°	271.5	315.3	411.6	521.0	575.8
72.5°	223.3	267.1	356.8	464.1	510.1
75°	177.3	216.7	302.1	400.6	446.6
77.5°	133.5	170.8	243.0	328.4	365.6
80°	94.1	127.0	186.1	236.4	249.6
82.5°	63.5	87.6	118.2	142.3	140.1
85°	35.0	48.2	61.3	72.2	67.9
87.5°	13.1	15.3	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)