

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: P220083

Luminaire Tested: **R3-WG-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220083  
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-5L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3722.5 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

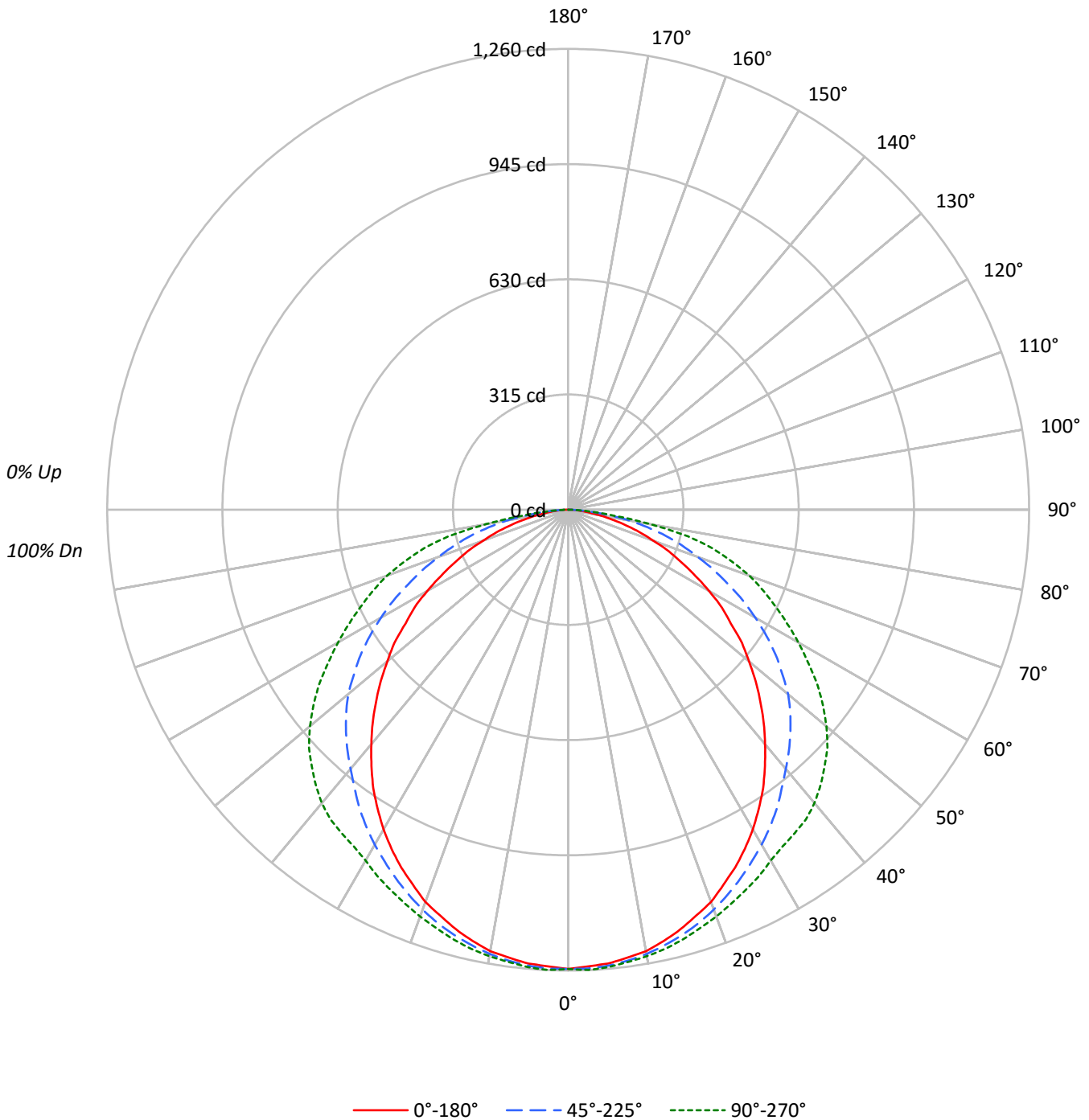
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3379	3379	3379
5°	3365	3381	3392
10°	3349	3371	3387
15°	3308	3353	3387
20°	3269	3332	3389
25°	3205	3306	3407
30°	3136	3286	3441
35°	3052	3270	3546
40°	2941	3250	3679
45°	2828	3269	3773
50°	2699	3286	3857
55°	2546	3251	3899
60°	2393	3180	3912
65°	2180	3073	3978
70°	1954	2962	4144
75°	1686	2874	4247
80°	1334	2638	3538
85°	988	1732	1917



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.8	3.2
10°-20°	339.4	9.1
20°-30°	513.5	13.8
30°-40°	625.5	16.8
40°-50°	666.3	17.9
50°-60°	615.5	16.5
60°-70°	479.8	12.9
70°-80°	294.0	7.9
80°-90°	69.7	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°	971.7	26.1
0°-40°	1597.2	42.9
0°-60°	2879.0	77.3
0°-90°	3722.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3722.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1246	1248	1252	1254	1256	118
15°	1188	1192	1204	1214	1216	335
25°	1079	1089	1113	1138	1148	497
35°	929	945	995	1051	1079	580
45°	743	773	859	957	991	573
55°	543	591	693	793	831	488
65°	342	390	483	579	625	341
75°	162	198	276	366	408	173
85°	32	44	56	66	62	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1255.6	1255.6	1255.6	1255.6	1255.6
2.5°	1249.6	1251.6	1255.6	1257.6	1259.6
5°	1245.6	1247.6	1251.6	1253.6	1255.6
7.5°	1235.6	1239.6	1243.6	1247.6	1247.6
10°	1225.6	1227.6	1233.6	1237.6	1239.6
12.5°	1207.6	1211.6	1219.6	1227.6	1229.6
15°	1187.5	1191.5	1203.6	1213.6	1215.6
17.5°	1163.5	1171.5	1185.5	1195.5	1199.5
20°	1141.5	1147.5	1163.5	1177.5	1183.5
22.5°	1109.4	1119.4	1139.5	1157.5	1165.5
25°	1079.4	1089.4	1113.4	1137.5	1147.5
27.5°	1045.3	1057.4	1085.4	1119.4	1129.5
30°	1009.3	1021.3	1057.4	1095.4	1107.4
32.5°	969.3	983.3	1027.3	1071.4	1091.4
35°	929.2	945.2	995.3	1051.4	1079.4
37.5°	883.1	905.2	959.2	1033.3	1067.4
40°	837.1	861.1	925.2	1015.3	1047.4
42.5°	791.0	817.1	893.2	987.3	1021.3
45°	743.0	773.0	859.1	957.2	991.3
47.5°	694.9	726.9	823.1	923.2	961.2
50°	644.8	680.9	785.0	883.1	921.2
52.5°	598.8	632.8	737.0	839.1	877.1
55°	542.7	590.8	692.9	793.0	831.1
57.5°	498.6	534.7	642.8	741.0	777.0
60°	444.6	484.6	590.8	686.9	726.9
62.5°	392.5	438.6	538.7	632.8	674.9
65°	342.4	390.5	482.6	578.7	624.8
67.5°	298.4	340.4	430.6	528.7	576.7
70°	248.3	288.4	376.5	476.6	526.7
72.5°	204.3	244.3	326.4	424.5	466.6
75°	162.2	198.3	276.4	366.5	408.5
77.5°	122.2	156.2	222.3	300.4	334.4
80°	86.1	116.1	170.2	216.3	228.3
82.5°	58.1	80.1	108.1	130.2	128.2
85°	32.0	44.1	56.1	66.1	62.1
87.5°	12.0	14.0	20.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)