

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: P220212

Luminaire Tested: **R3-WG-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35862)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-2L35-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3751.4 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

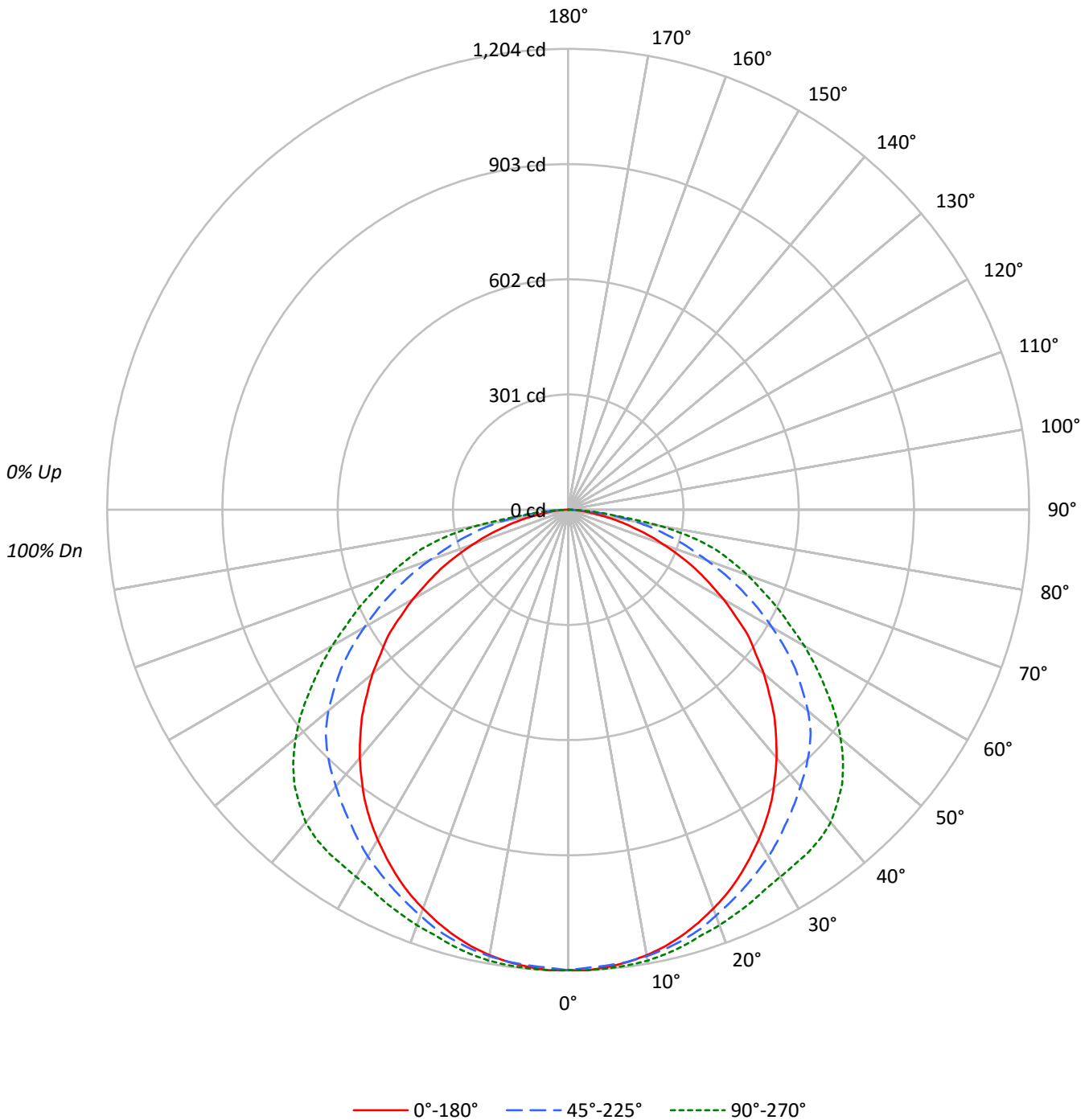
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	1618	1618	1618
5°	1619	1614	1625
10°	1614	1618	1634
15°	1604	1620	1641
20°	1588	1616	1654
25°	1570	1617	1680
30°	1546	1626	1721
35°	1521	1634	1795
40°	1488	1657	1873
45°	1448	1695	1926
50°	1396	1712	1945
55°	1347	1698	1931
60°	1261	1656	1916
65°	1171	1597	1913
70°	1041	1510	1958
75°	887	1458	2064
80°	687	1384	1907
85°	491	919	1144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	3.0
10°-20°	328.7	8.8
20°-30°	504.3	13.4
30°-40°	628.1	16.7
40°-50°	682.7	18.2
50°-60°	632.8	16.9
60°-70°	487.9	13.0
70°-80°	297.8	7.9
80°-90°	75.1	2.0
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°	947.0	25.2
0°-40°	1575.1	42.0
0°-60°	2890.6	77.1
0°-90°	3751.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1199	1199	1195	1202	1203	114
15°	1151	1157	1163	1175	1178	325
25°	1057	1069	1089	1121	1131	487
35°	926	942	995	1065	1093	579
45°	761	789	891	981	1012	585
55°	574	613	724	802	823	509
65°	368	414	502	570	601	362
75°	171	212	280	360	397	183
85°	32	52	60	69	74	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1202.9	1202.9	1202.9	1202.9	1202.9
2.5°	1204.2	1201.6	1197.6	1202.9	1204.2
5°	1198.9	1198.9	1195.0	1201.6	1202.9
7.5°	1192.3	1191.0	1191.0	1197.6	1200.3
10°	1181.7	1181.7	1184.4	1193.6	1196.3
12.5°	1168.5	1169.8	1175.1	1185.7	1188.3
15°	1151.3	1156.6	1163.2	1175.1	1177.8
17.5°	1131.4	1136.7	1148.6	1160.6	1164.5
20°	1108.9	1116.9	1128.8	1148.6	1155.3
22.5°	1085.1	1094.4	1108.9	1134.1	1143.4
25°	1057.3	1069.2	1089.1	1120.9	1131.4
27.5°	1026.9	1040.1	1067.9	1103.7	1116.9
30°	995.1	1008.4	1046.7	1089.1	1107.6
32.5°	962.1	975.3	1021.6	1075.9	1099.7
35°	926.3	942.2	995.1	1065.3	1093.1
37.5°	886.6	903.8	970.0	1053.4	1082.5
40°	846.9	866.8	943.5	1036.2	1066.6
42.5°	803.3	831.0	918.4	1011.0	1040.1
45°	760.9	788.7	890.6	980.6	1012.3
47.5°	711.9	749.0	858.8	943.5	974.0
50°	667.0	705.3	817.8	902.5	929.0
52.5°	616.7	660.3	770.2	854.9	880.0
55°	574.3	612.7	723.9	801.9	823.1
57.5°	518.7	567.7	670.9	746.4	768.9
60°	468.5	514.8	615.3	689.5	711.9
62.5°	415.5	469.8	559.8	629.9	652.4
65°	367.9	414.2	501.5	570.4	600.8
67.5°	315.0	361.3	443.3	514.8	545.2
70°	264.7	311.0	383.8	461.8	497.6
72.5°	217.0	259.4	330.8	408.9	446.0
75°	170.7	211.7	280.5	359.9	397.0
77.5°	128.4	166.7	230.3	304.4	328.2
80°	88.7	124.4	178.6	230.3	246.1
82.5°	56.9	87.3	120.4	138.9	131.0
85°	31.8	51.6	59.5	68.8	74.1
87.5°	14.6	17.2	21.2	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)