

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: P220072

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-5L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4105.8 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

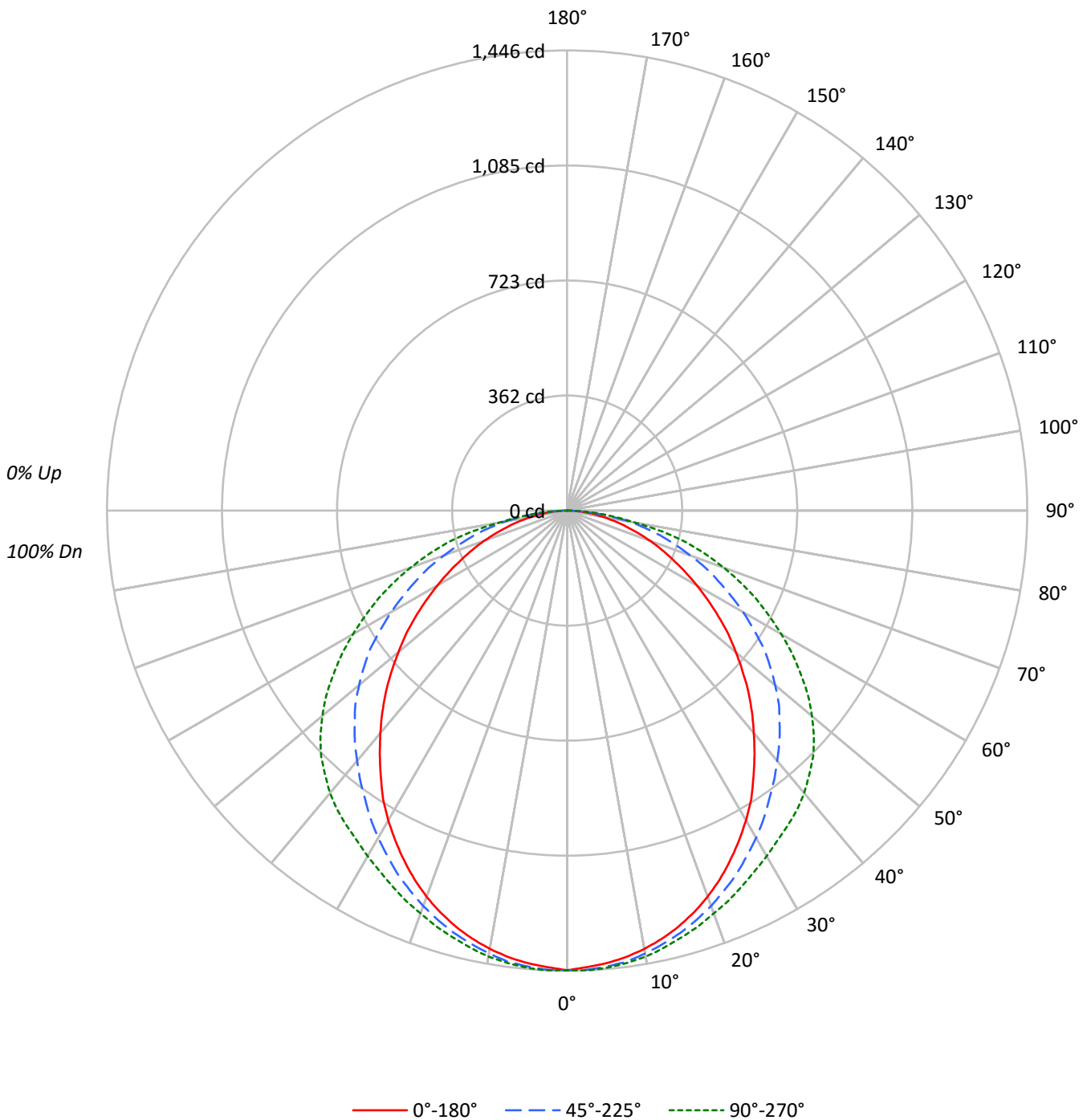
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	3886	3886	3886
5°	3856	3884	3895
10°	3822	3861	3889
15°	3770	3827	3868
20°	3698	3786	3857
25°	3601	3742	3864
30°	3492	3691	3897
35°	3353	3638	3970
40°	3208	3607	4071
45°	3066	3593	4159
50°	2897	3572	4203
55°	2723	3538	4206
60°	2535	3436	4181
65°	2341	3341	4170
70°	2178	3234	4113
75°	1976	3158	4038
80°	1760	3042	3361
85°	1593	2424	2933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.4	3.3
10°-20°	387.2	9.4
20°-30°	580.0	14.1
30°-40°	696.2	17.0
40°-50°	729.6	17.8
50°-60°	664.6	16.2
60°-70°	513.1	12.5
70°-80°	311.4	7.6
80°-90°	87.4	2.1
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°	1103.5	26.9
0°-40°	1799.7	43.8
0°-60°	3193.9	77.8
0°-90°	4105.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4105.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1428	1432	1438	1442	1442	135
15°	1353	1361	1374	1386	1388	381
25°	1213	1227	1260	1289	1302	558
35°	1021	1045	1107	1180	1209	639
45°	806	841	944	1052	1093	620
55°	580	628	754	857	897	520
65°	368	419	525	618	655	367
75°	190	227	304	368	388	202
85°	52	62	78	91	95	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1444.1	1444.1	1444.1	1444.1	1444.1
2.5°	1435.8	1437.9	1444.1	1446.1	1446.1
5°	1427.6	1431.7	1437.9	1442.0	1442.0
7.5°	1415.2	1419.3	1429.6	1433.8	1433.8
10°	1398.6	1404.8	1413.1	1421.4	1423.4
12.5°	1378.0	1384.2	1394.5	1404.8	1406.9
15°	1353.2	1361.4	1373.8	1386.2	1388.3
17.5°	1324.3	1332.5	1349.0	1365.6	1369.7
20°	1291.2	1299.5	1322.2	1342.9	1347.0
22.5°	1254.0	1266.4	1291.2	1318.1	1326.3
25°	1212.7	1227.2	1260.2	1289.1	1301.5
27.5°	1169.3	1185.8	1223.0	1262.3	1276.7
30°	1123.9	1140.4	1187.9	1233.4	1254.0
32.5°	1076.3	1092.9	1148.7	1206.5	1229.2
35°	1020.6	1045.4	1107.3	1179.6	1208.6
37.5°	966.9	995.8	1068.1	1152.8	1185.8
40°	913.1	944.1	1026.8	1121.8	1159.0
42.5°	859.4	892.5	987.5	1090.8	1125.9
45°	805.7	840.8	944.1	1051.6	1092.9
47.5°	747.9	787.1	902.8	1008.2	1051.6
50°	692.1	735.5	853.2	964.8	1004.0
52.5°	638.4	679.7	803.6	915.2	954.5
55°	580.5	628.0	754.1	857.4	896.6
57.5°	524.7	574.3	694.2	801.6	838.8
60°	471.0	518.5	638.4	741.7	776.8
62.5°	419.4	469.0	580.5	679.7	714.8
65°	367.7	419.4	524.7	617.7	654.9
67.5°	322.3	367.7	471.0	557.8	588.8
70°	276.8	316.1	411.1	493.8	522.7
72.5°	231.4	270.6	355.3	429.7	456.6
75°	190.1	227.3	303.7	367.7	388.4
77.5°	150.8	183.9	250.0	301.6	307.8
80°	113.6	140.5	196.3	219.0	216.9
82.5°	82.6	101.2	132.2	148.7	148.7
85°	51.6	62.0	78.5	90.9	95.0
87.5°	22.7	26.9	33.1	35.1	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)