

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: P220073

Luminaire Tested: **R3-WL-6L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220073  
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-6L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

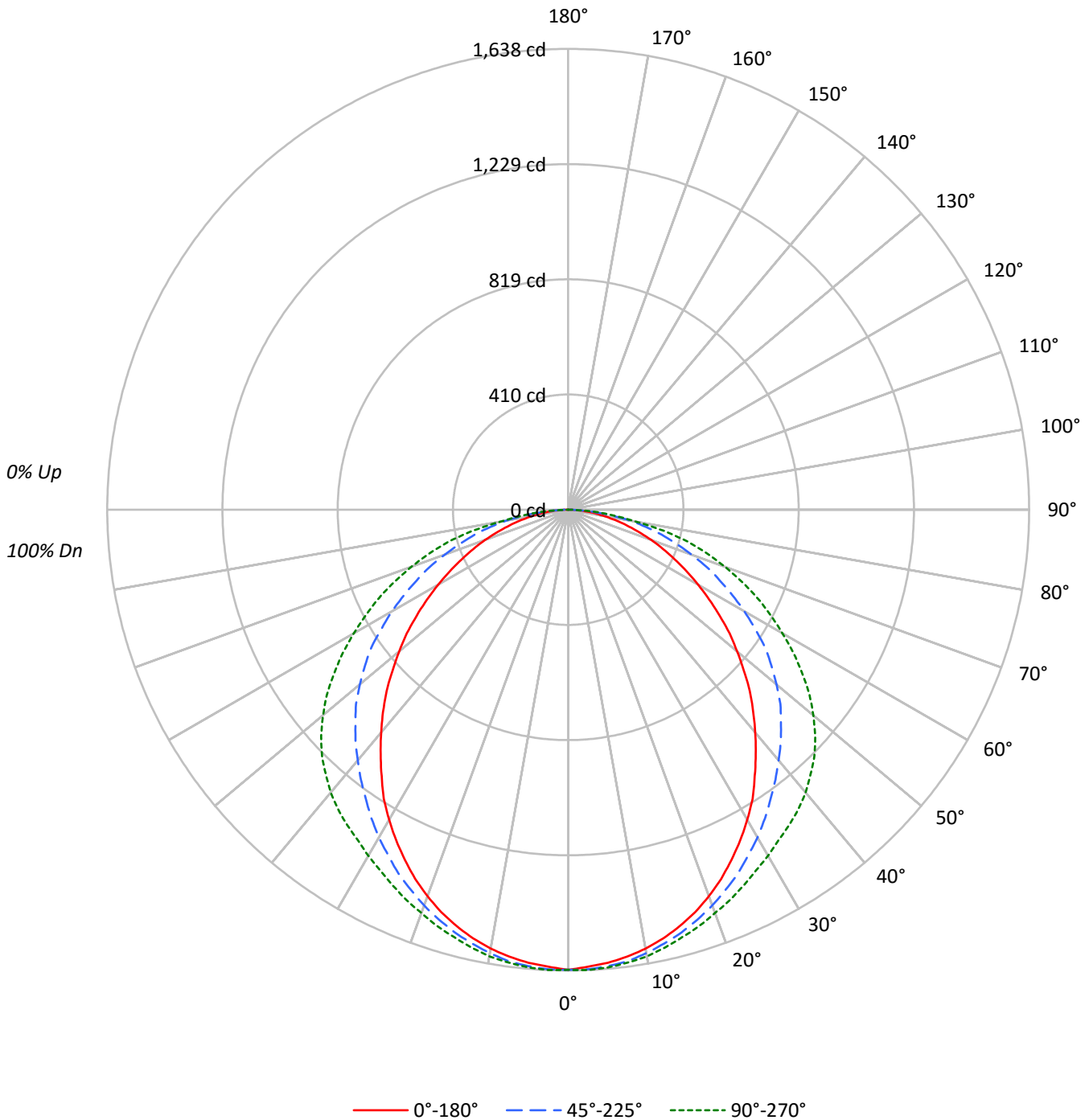
Lumens per Lamp: N/A  
Luminaire Lumens: 4649.6 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	4401	4401	4401
5°	4367	4398	4411
10°	4328	4373	4405
15°	4269	4334	4380
20°	4187	4288	4368
25°	4078	4237	4376
30°	3955	4180	4413
35°	3797	4119	4496
40°	3633	4085	4611
45°	3472	4069	4710
50°	3281	4045	4760
55°	3084	4006	4764
60°	2871	3891	4735
65°	2651	3784	4722
70°	2467	3663	4657
75°	2237	3576	4573
80°	1994	3445	3808
85°	1806	2745	3322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.4	3.3
10°-20°	438.5	9.4
20°-30°	656.8	14.1
30°-40°	788.4	17.0
40°-50°	826.2	17.8
50°-60°	752.7	16.2
60°-70°	581.0	12.5
70°-80°	352.7	7.6
80°-90°	98.9	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°	1249.7	26.9
0°-40°	2038.1	43.8
0°-60°	3617.0	77.8
0°-90°	4649.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4649.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1617	1621	1628	1633	1633	153
15°	1532	1542	1556	1570	1572	432
25°	1373	1390	1427	1460	1474	632
35°	1156	1184	1254	1336	1369	723
45°	912	952	1069	1191	1238	702
55°	657	711	854	971	1015	588
65°	416	475	594	700	742	415
75°	215	257	344	416	440	229
85°	58	70	89	103	108	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1635.4	1635.4	1635.4	1635.4	1635.4
2.5°	1626.0	1628.3	1635.4	1637.7	1637.7
5°	1616.6	1621.3	1628.3	1633.0	1633.0
7.5°	1602.6	1607.3	1619.0	1623.7	1623.7
10°	1583.9	1590.9	1600.3	1609.6	1612.0
12.5°	1560.5	1567.5	1579.2	1590.9	1593.2
15°	1532.4	1541.8	1555.8	1569.8	1572.2
17.5°	1499.7	1509.0	1527.7	1546.5	1551.1
20°	1462.2	1471.6	1497.3	1520.7	1525.4
22.5°	1420.1	1434.2	1462.2	1492.6	1502.0
25°	1373.3	1389.7	1427.1	1459.9	1473.9
27.5°	1324.2	1342.9	1385.0	1429.5	1445.9
30°	1272.7	1291.4	1345.2	1396.7	1420.1
32.5°	1218.9	1237.6	1300.8	1366.3	1392.0
35°	1155.7	1183.8	1254.0	1335.9	1368.6
37.5°	1094.9	1127.7	1209.6	1305.5	1342.9
40°	1034.1	1069.2	1162.8	1270.4	1312.5
42.5°	973.3	1010.7	1118.3	1235.3	1275.1
45°	912.4	952.2	1069.2	1190.8	1237.6
47.5°	846.9	891.4	1022.4	1141.7	1190.8
50°	783.8	832.9	966.2	1092.6	1137.0
52.5°	722.9	769.7	910.1	1036.4	1080.9
55°	657.4	711.2	853.9	970.9	1015.4
57.5°	594.2	650.4	786.1	907.8	949.9
60°	533.4	587.2	722.9	839.9	879.7
62.5°	474.9	531.1	657.4	769.7	809.5
65°	416.4	474.9	594.2	699.5	741.6
67.5°	365.0	416.4	533.4	631.7	666.8
70°	313.5	358.0	465.6	559.2	591.9
72.5°	262.0	306.5	402.4	486.6	517.0
75°	215.2	257.4	343.9	416.4	439.8
77.5°	170.8	208.2	283.1	341.6	348.6
80°	128.7	159.1	222.3	248.0	245.7
82.5°	93.6	114.6	149.7	168.4	168.4
85°	58.5	70.2	88.9	102.9	107.6
87.5°	25.7	30.4	37.4	39.8	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)