

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: P219948

Luminaire Tested: **R3-WL-5L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35869)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WL-5L30-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5963.7 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

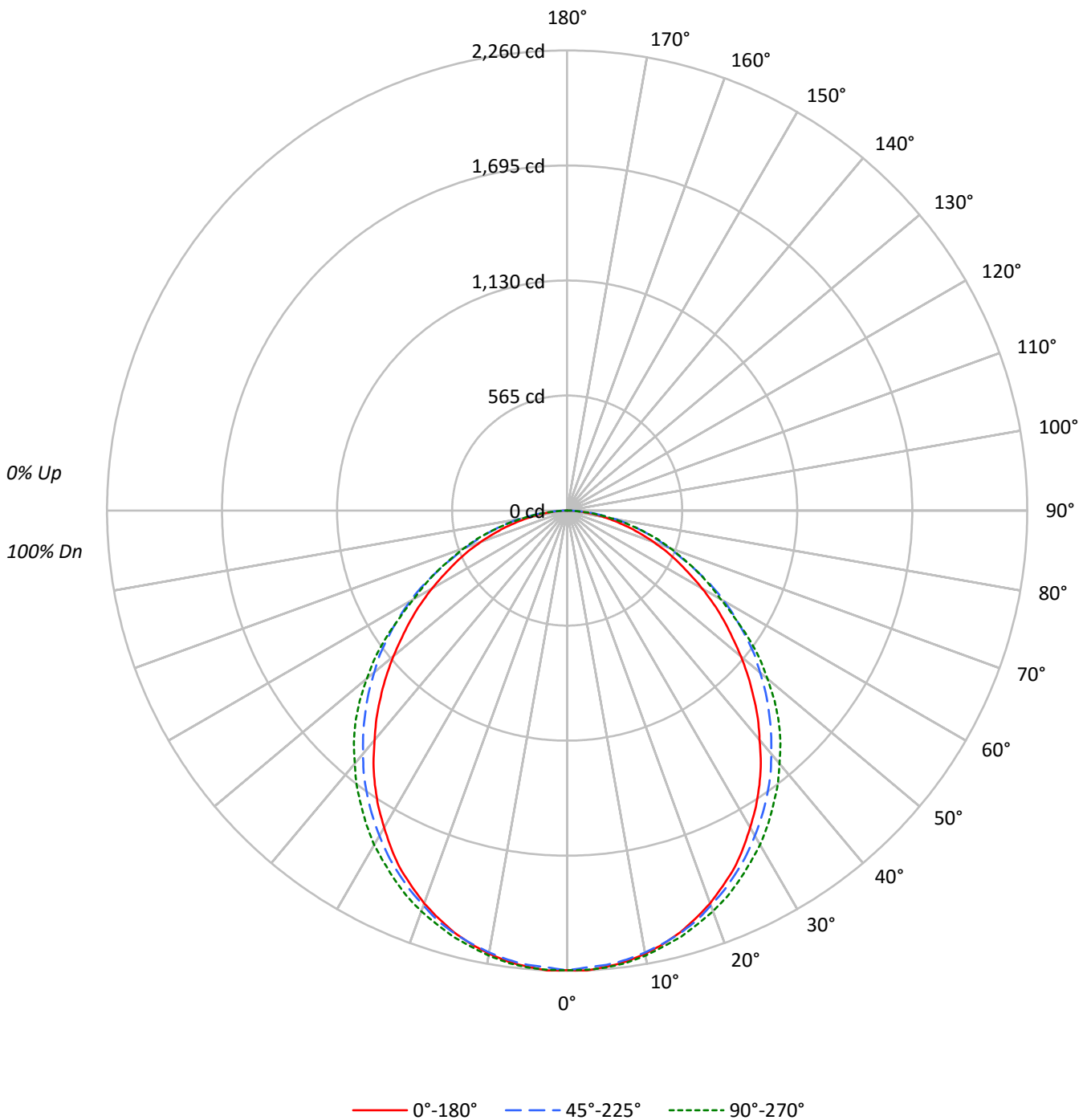
Input Watts (W): 54  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	6075	6075	6075
5°	6074	6050	6082
10°	6039	6023	6063
15°	5975	5983	6033
20°	5878	5912	5997
25°	5759	5830	5945
30°	5584	5732	5889
35°	5406	5621	5797
40°	5165	5478	5697
45°	4929	5336	5596
50°	4663	5173	5372
55°	4404	5003	5087
60°	4125	4796	4684
65°	3840	4464	4483
70°	3552	4160	4231
75°	3212	3953	3953
80°	2808	3682	3453
85°	2384	3026	2658



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.4	3.6
10°-20°	607.3	10.2
20°-30°	907.1	15.2
30°-40°	1068.8	17.9
40°-50°	1074.0	18.0
50°-60°	929.0	15.6
60°-70°	672.0	11.3
70°-80°	386.3	6.5
80°-90°	105.9	1.8
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°	1727.7	29.0
0°-40°	2796.4	46.9
0°-60°	4799.4	80.5
0°-90°	5963.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5963.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2249	2249	2240	2252	2252	213
15°	2145	2148	2148	2166	2166	604
25°	1940	1946	1964	1996	2002	891
35°	1646	1666	1711	1756	1764	1027
45°	1295	1334	1402	1458	1470	999
55°	939	983	1066	1099	1084	839
65°	603	645	701	704	704	599
75°	309	342	380	392	380	328
85°	77	92	98	92	86	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2257.6	2257.6	2257.6	2257.6	2257.6
2.5°	2260.5	2257.6	2245.7	2257.6	2257.6
5°	2248.7	2248.7	2239.7	2251.6	2251.6
7.5°	2233.8	2230.8	2224.9	2236.8	2239.7
10°	2210.0	2210.0	2204.1	2219.0	2219.0
12.5°	2180.3	2180.3	2177.4	2195.2	2192.2
15°	2144.7	2147.7	2147.7	2165.5	2165.5
17.5°	2100.1	2106.1	2112.0	2132.8	2129.8
20°	2052.6	2058.5	2064.5	2091.2	2094.2
22.5°	1996.2	2005.1	2017.0	2049.6	2052.6
25°	1939.7	1945.7	1963.5	1996.2	2002.1
27.5°	1871.4	1883.3	1907.1	1945.7	1948.6
30°	1797.1	1817.9	1844.7	1886.3	1895.2
32.5°	1725.9	1743.7	1779.3	1823.9	1832.8
35°	1645.7	1666.4	1711.0	1755.6	1764.5
37.5°	1562.5	1583.3	1639.7	1687.2	1699.1
40°	1470.4	1500.1	1559.5	1613.0	1621.9
42.5°	1387.2	1414.0	1482.3	1535.7	1550.6
45°	1295.1	1333.7	1402.1	1458.5	1470.4
47.5°	1206.0	1241.7	1321.9	1375.3	1381.3
50°	1113.9	1158.5	1235.7	1289.2	1283.3
52.5°	1021.8	1069.4	1158.5	1191.2	1191.2
55°	938.7	983.2	1066.4	1099.1	1084.2
57.5°	852.5	900.1	980.3	1001.1	971.3
60°	766.4	810.9	891.1	888.2	870.4
62.5°	680.2	727.8	799.1	793.1	787.2
65°	603.0	644.6	701.0	704.0	704.0
67.5°	528.7	570.3	609.0	623.8	614.9
70°	451.5	493.1	528.7	543.6	537.7
72.5°	377.3	421.8	451.5	469.3	463.4
75°	308.9	341.6	380.2	392.1	380.2
77.5°	240.6	273.3	308.9	314.9	303.0
80°	181.2	207.9	237.6	231.7	222.8
82.5°	127.7	148.5	166.3	157.4	151.5
85°	77.2	92.1	98.0	92.1	86.1
87.5°	32.7	38.6	38.6	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)