

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: P220210

Luminaire Tested: **R3-WG-5L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220210  
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-5L30-LD5-UNV-24  
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

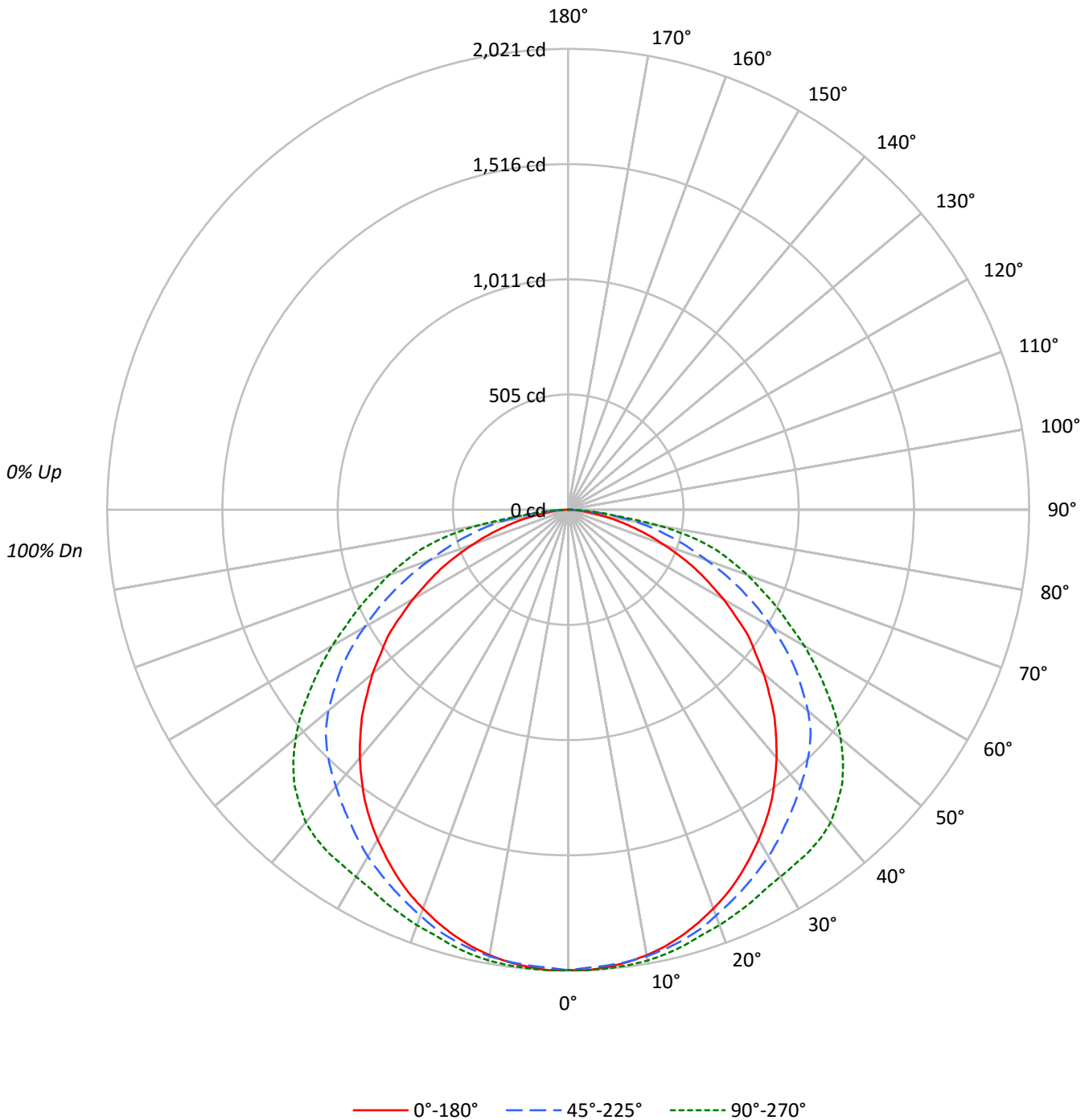
Lumens per Lamp: N/A  
Luminaire Lumens: 6296.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.6  
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	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°	2717	2717	2717
5°	2718	2709	2727
10°	2710	2716	2743
15°	2692	2720	2754
20°	2665	2713	2776
25°	2635	2714	2820
30°	2595	2730	2889
35°	2554	2744	3014
40°	2497	2782	3145
45°	2430	2845	3233
50°	2343	2873	3264
55°	2261	2850	3241
60°	2116	2780	3216
65°	1966	2680	3210
70°	1747	2534	3286
75°	1489	2448	3464
80°	1153	2324	3201
85°	823	1544	1920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.5	3.0
10°-20°	551.8	8.8
20°-30°	846.4	13.4
30°-40°	1054.2	16.7
40°-50°	1145.9	18.2
50°-60°	1062.2	16.9
60°-70°	819.0	13.0
70°-80°	499.8	7.9
80°-90°	126.1	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°	1589.6	25.2
0°-40°	2643.9	42.0
0°-60°	4852.0	77.1
0°-90°	6296.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6296.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2019	2019	2019	2019	2019	
5°	2012	2012	2006	2017	2019	191
15°	1932	1941	1952	1972	1977	545
25°	1775	1795	1828	1881	1899	817
35°	1555	1582	1670	1788	1835	971
45°	1277	1324	1495	1646	1699	982
55°	964	1028	1215	1346	1382	855
65°	618	695	842	957	1008	608
75°	286	355	471	604	666	306
85°	53	87	100	116	124	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2019.1	2019.1	2019.1	2019.1	2019.1
2.5°	2021.3	2016.9	2010.2	2019.1	2021.3
5°	2012.4	2012.4	2005.8	2016.9	2019.1
7.5°	2001.3	1999.1	1999.1	2010.2	2014.7
10°	1983.6	1983.6	1988.0	2003.6	2008.0
12.5°	1961.3	1963.6	1972.5	1990.2	1994.7
15°	1932.5	1941.4	1952.5	1972.5	1976.9
17.5°	1899.2	1908.0	1928.0	1948.0	1954.7
20°	1861.4	1874.7	1894.7	1928.0	1939.1
22.5°	1821.4	1837.0	1861.4	1903.6	1919.1
25°	1774.8	1794.8	1828.1	1881.4	1899.2
27.5°	1723.7	1745.9	1792.5	1852.5	1874.7
30°	1670.4	1692.6	1757.0	1828.1	1859.2
32.5°	1614.8	1637.0	1714.8	1805.9	1845.8
35°	1554.9	1581.5	1670.4	1788.1	1834.7
37.5°	1488.2	1517.1	1628.2	1768.1	1817.0
40°	1421.6	1454.9	1583.7	1739.2	1790.3
42.5°	1348.3	1394.9	1541.5	1697.0	1745.9
45°	1277.2	1323.9	1494.9	1645.9	1699.2
47.5°	1195.0	1257.2	1441.6	1583.7	1634.8
50°	1119.5	1183.9	1372.7	1514.9	1559.3
52.5°	1035.1	1108.4	1292.8	1434.9	1477.1
55°	964.0	1028.4	1215.0	1346.1	1381.6
57.5°	870.7	952.9	1126.2	1252.8	1290.5
60°	786.3	864.1	1032.9	1157.3	1195.0
62.5°	697.5	788.5	939.6	1057.3	1095.1
65°	617.5	695.2	841.8	957.4	1008.4
67.5°	528.7	606.4	744.1	864.1	915.1
70°	444.2	522.0	644.2	775.2	835.2
72.5°	364.3	435.4	555.3	686.4	748.6
75°	286.5	355.4	470.9	604.2	666.4
77.5°	215.5	279.9	386.5	510.9	550.9
80°	148.8	208.8	299.9	386.5	413.1
82.5°	95.5	146.6	202.1	233.2	219.9
85°	53.3	86.6	100.0	115.5	124.4
87.5°	24.4	28.9	35.5	40.0	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)