

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: P220215

Luminaire Tested: **R3-WG-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220215
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-5L35-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

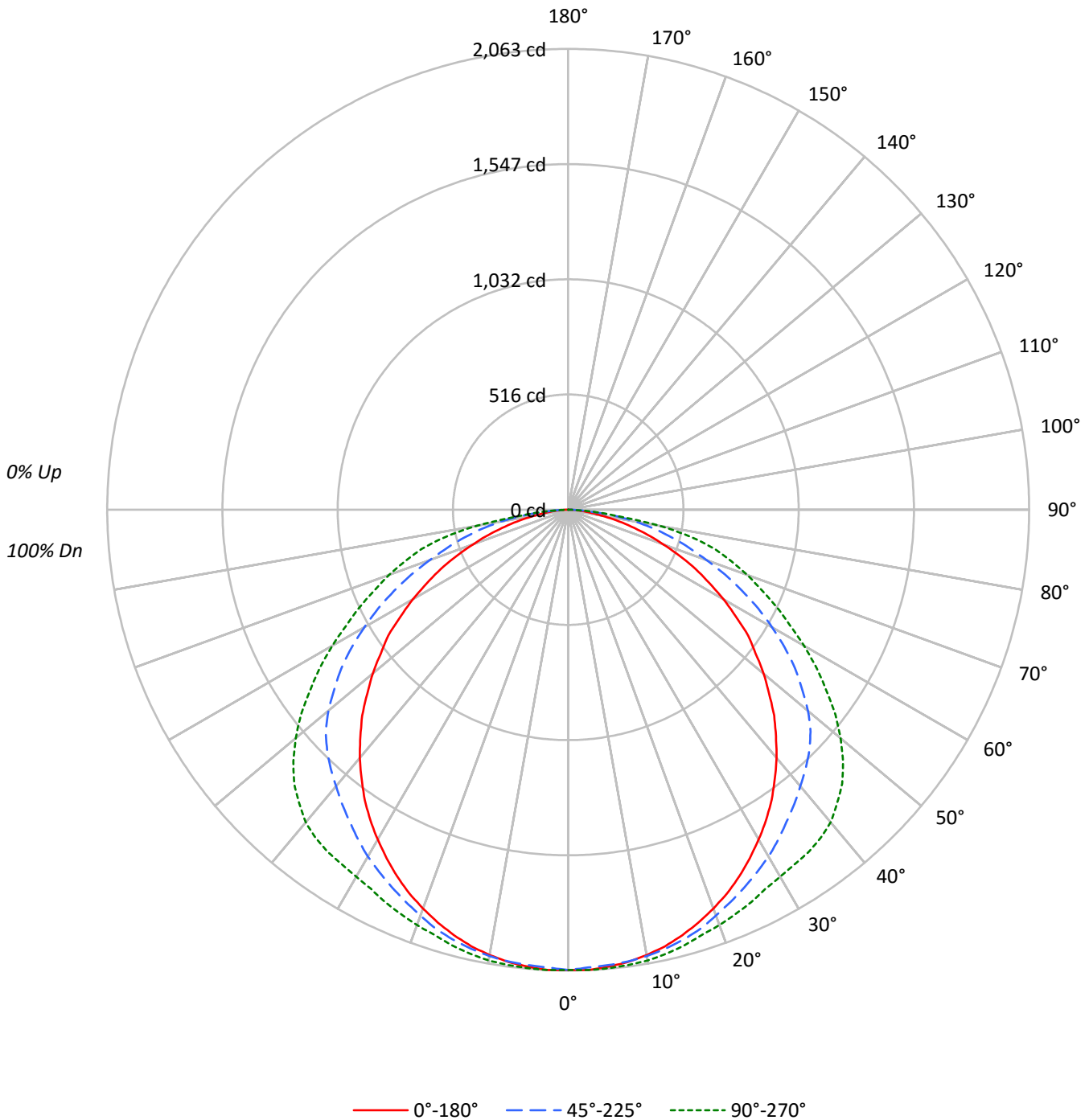
Lumens per Lamp: N/A
Luminaire Lumens: 6426.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P220215
CATALOG NUMBER: R3-WG-5L35-LD5-UNV-24

Luminous Intensity Polar Plot





TEST NUMBER: P220215

CATALOG NUMBER: R3-WG-5L35-LD5-UNV-24

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°	2772	2772	2772
5°	2774	2765	2783
10°	2766	2772	2800
15°	2747	2775	2810
20°	2720	2769	2833
25°	2689	2770	2877
30°	2648	2786	2948
35°	2606	2800	3075
40°	2548	2839	3209
45°	2480	2903	3300
50°	2391	2932	3331
55°	2308	2909	3308
60°	2160	2837	3282
65°	2006	2735	3276
70°	1784	2586	3353
75°	1520	2498	3535
80°	1177	2371	3267
85°	840	1575	1959



TEST NUMBER: P220215

CATALOG NUMBER: R3-WG-5L35-LD5-UNV-24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.0
10°-20°	563.1	8.8
20°-30°	863.8	13.4
30°-40°	1075.9	16.7
40°-50°	1169.5	18.2
50°-60°	1084.0	16.9
60°-70°	835.8	13.0
70°-80°	510.1	7.9
80°-90°	128.7	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°	1622.3	25.2
0°-40°	2698.1	42.0
0°-60°	4951.6	77.1
0°-90°	6426.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6426.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2054	2054	2047	2058	2060	195
15°	1972	1981	1992	2013	2018	556
25°	1811	1832	1866	1920	1938	834
35°	1587	1614	1705	1825	1872	991
45°	1303	1351	1526	1680	1734	1003
55°	984	1050	1240	1374	1410	872
65°	630	710	859	977	1029	621
75°	292	363	481	617	680	313
85°	54	88	102	118	127	69
90°	0	0	0	0	0	



TEST NUMBER: P220215

CATALOG NUMBER: R3-WG-5L35-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060.5	2060.5	2060.5	2060.5	2060.5
2.5°	2062.8	2058.3	2051.5	2060.5	2062.8
5°	2053.7	2053.7	2046.9	2058.3	2060.5
7.5°	2042.4	2040.1	2040.1	2051.5	2056.0
10°	2024.3	2024.3	2028.8	2044.7	2049.2
12.5°	2001.6	2003.9	2012.9	2031.1	2035.6
15°	1972.1	1981.2	1992.5	2012.9	2017.5
17.5°	1938.1	1947.2	1967.6	1988.0	1994.8
20°	1899.6	1913.2	1933.6	1967.6	1978.9
22.5°	1858.8	1874.7	1899.6	1942.7	1958.5
25°	1811.2	1831.6	1865.6	1920.0	1938.1
27.5°	1759.1	1781.7	1829.3	1890.5	1913.2
30°	1704.6	1727.3	1793.1	1865.6	1897.3
32.5°	1648.0	1670.6	1750.0	1842.9	1883.7
35°	1586.8	1614.0	1704.6	1824.8	1872.4
37.5°	1518.8	1548.2	1661.6	1804.4	1854.3
40°	1450.8	1484.8	1616.2	1774.9	1827.1
42.5°	1376.0	1423.6	1573.2	1731.8	1781.7
45°	1303.4	1351.0	1525.6	1679.7	1734.1
47.5°	1219.5	1283.0	1471.2	1616.2	1668.4
50°	1142.5	1208.2	1400.9	1546.0	1591.3
52.5°	1056.3	1131.1	1319.3	1464.4	1507.4
55°	983.8	1049.5	1239.9	1373.7	1410.0
57.5°	888.6	972.5	1149.3	1278.5	1317.0
60°	802.5	881.8	1054.1	1181.0	1219.5
62.5°	711.8	804.7	958.9	1079.0	1117.5
65°	630.2	709.5	859.1	977.0	1029.1
67.5°	539.5	618.8	759.4	881.8	933.9
70°	453.4	532.7	657.4	791.1	852.3
72.5°	371.8	444.3	566.7	700.4	763.9
75°	292.4	362.7	480.6	616.6	680.0
77.5°	219.9	285.6	394.4	521.4	562.2
80°	151.9	213.1	306.0	394.4	421.6
82.5°	97.5	149.6	206.3	238.0	224.4
85°	54.4	88.4	102.0	117.9	126.9
87.5°	24.9	29.5	36.3	40.8	40.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)