

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: P220219

Luminaire Tested: **R3-WG-4L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220219
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-4L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

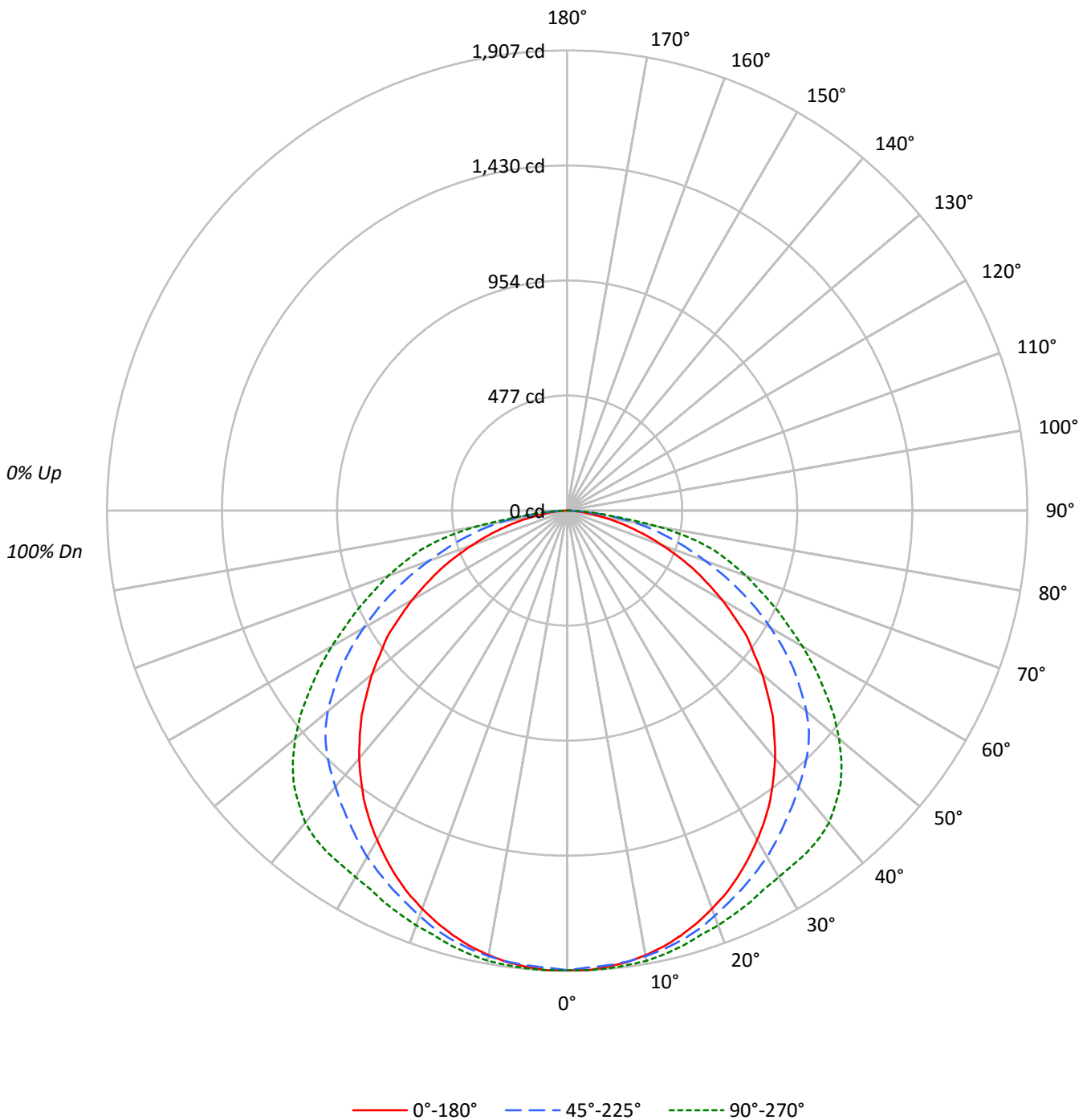
Lumens per Lamp: N/A
Luminaire Lumens: 5939.6 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
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°	2562	2562	2562
5°	2564	2555	2572
10°	2556	2562	2588
15°	2539	2565	2597
20°	2514	2559	2619
25°	2485	2560	2659
30°	2448	2575	2725
35°	2409	2588	2843
40°	2355	2624	2966
45°	2292	2683	3050
50°	2210	2710	3079
55°	2133	2689	3057
60°	1996	2622	3033
65°	1855	2528	3028
70°	1648	2390	3099
75°	1405	2309	3268
80°	1088	2192	3020
85°	777	1456	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	3.0
10°-20°	520.5	8.8
20°-30°	798.4	13.4
30°-40°	994.4	16.7
40°-50°	1080.9	18.2
50°-60°	1001.9	16.9
60°-70°	772.5	13.0
70°-80°	471.5	7.9
80°-90°	119.0	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°	1499.4	25.2
0°-40°	2493.9	42.0
0°-60°	4576.7	77.1
0°-90°	5939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5939.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1904	1904	1904	1904	1904	
5°	1898	1898	1892	1902	1904	180
15°	1823	1831	1842	1860	1865	514
25°	1674	1693	1724	1775	1791	771
35°	1467	1492	1576	1687	1731	916
45°	1205	1249	1410	1552	1603	927
55°	909	970	1146	1270	1303	806
65°	582	656	794	903	951	574
75°	270	335	444	570	629	289
85°	50	82	94	109	117	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1906.6	1902.4	1896.2	1904.5	1906.6
5°	1898.3	1898.3	1892.0	1902.4	1904.5
7.5°	1887.8	1885.7	1885.7	1896.2	1900.3
10°	1871.0	1871.0	1875.2	1889.9	1894.1
12.5°	1850.1	1852.2	1860.5	1877.3	1881.5
15°	1822.8	1831.2	1841.7	1860.5	1864.7
17.5°	1791.4	1799.8	1818.6	1837.5	1843.8
20°	1755.8	1768.3	1787.2	1818.6	1829.1
22.5°	1718.1	1732.7	1755.8	1795.6	1810.3
25°	1674.1	1692.9	1724.4	1774.6	1791.4
27.5°	1625.9	1646.8	1690.8	1747.4	1768.3
30°	1575.6	1596.5	1657.3	1724.4	1753.7
32.5°	1523.2	1544.2	1617.5	1703.4	1741.1
35°	1466.6	1491.8	1575.6	1686.6	1730.6
37.5°	1403.8	1431.0	1535.8	1667.8	1713.9
40°	1340.9	1372.4	1493.9	1640.5	1688.7
42.5°	1271.8	1315.8	1454.1	1600.7	1646.8
45°	1204.7	1248.7	1410.1	1552.5	1602.8
47.5°	1127.2	1185.9	1359.8	1493.9	1542.1
50°	1056.0	1116.7	1294.8	1428.9	1470.8
52.5°	976.4	1045.5	1219.4	1353.5	1393.3
55°	909.3	970.1	1146.1	1269.7	1303.2
57.5°	821.3	898.8	1062.3	1181.7	1217.3
60°	741.7	815.0	974.3	1091.6	1127.2
62.5°	657.9	743.8	886.3	997.3	1032.9
65°	582.5	655.8	794.1	903.0	951.2
67.5°	498.7	572.0	701.9	815.0	863.2
70°	419.0	492.4	607.6	731.2	787.8
72.5°	343.6	410.7	523.8	647.4	706.1
75°	270.3	335.2	444.2	569.9	628.6
77.5°	203.2	264.0	364.6	481.9	519.6
80°	140.4	196.9	282.9	364.6	389.7
82.5°	90.1	138.3	190.7	220.0	207.4
85°	50.3	81.7	94.3	109.0	117.3
87.5°	23.0	27.2	33.5	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)