

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: P219972

Luminaire Tested: **R3-WG-5L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35870)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-5L40-LD5-UNV-14
Description: CLASS R3 1X4 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: 5803.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

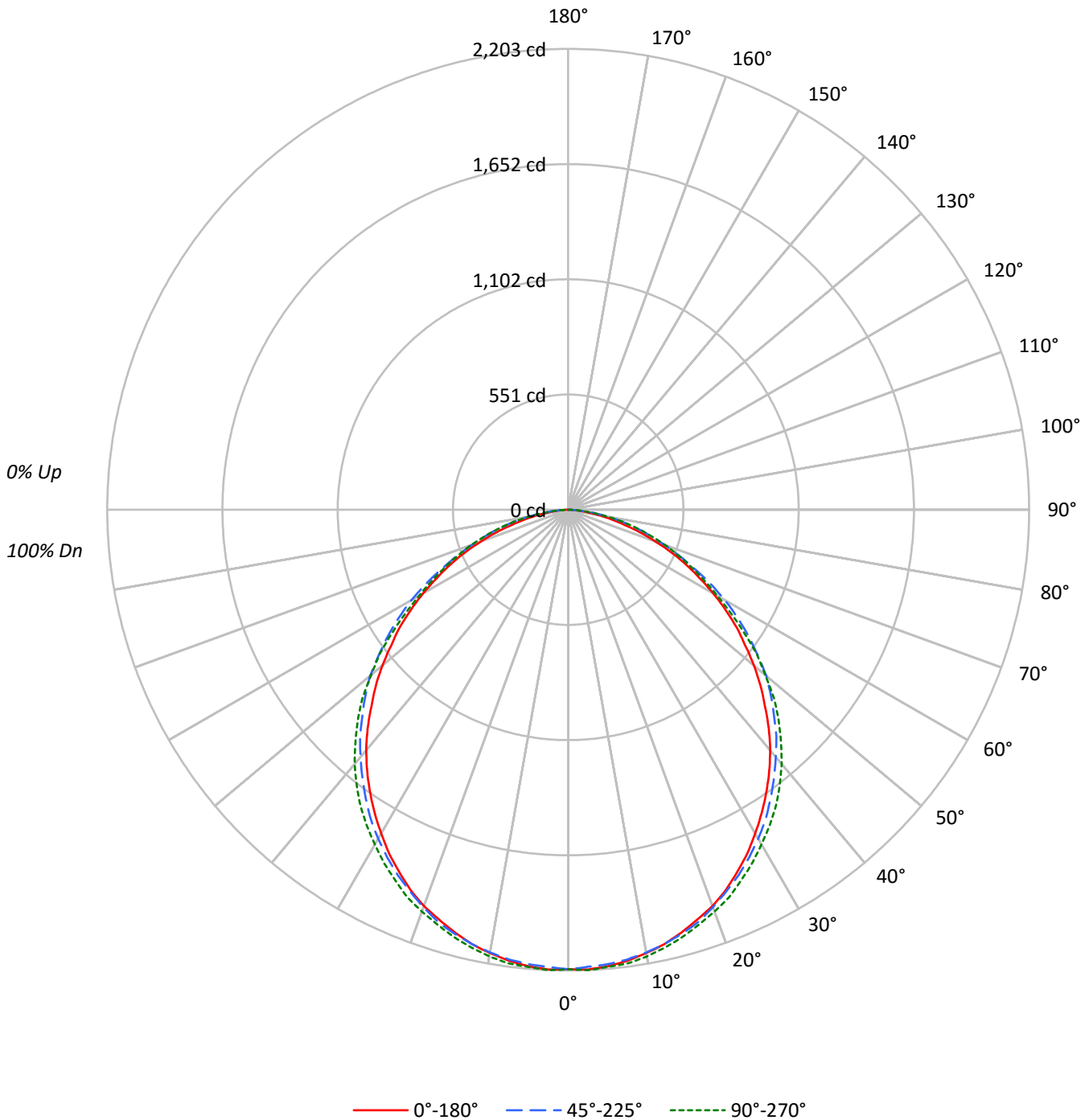
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5911	5911	5911
5°	5917	5891	5925
10°	5881	5872	5925
15°	5828	5846	5890
20°	5773	5791	5855
25°	5674	5721	5806
30°	5553	5642	5741
35°	5423	5537	5684
40°	5275	5420	5576
45°	5062	5291	5412
50°	4851	5170	5143
55°	4617	4929	4825
60°	4306	4647	4425
65°	3962	4225	4124
70°	3496	3821	3871
75°	2872	3465	3499
80°	2263	2952	2952
85°	1568	2155	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	3.6
10°-20°	593.2	10.2
20°-30°	890.3	15.3
30°-40°	1056.0	18.2
40°-50°	1067.3	18.4
50°-60°	917.7	15.8
60°-70°	647.6	11.2
70°-80°	345.2	5.9
80°-90°	78.2	1.3
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°	1691.5	29.1
0°-40°	2747.5	47.3
0°-60°	4732.5	81.5
0°-90°	5803.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5803.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2197	2197	2197	2197	2197	
5°	2190	2187	2181	2194	2194	208
15°	2092	2098	2098	2114	2114	590
25°	1911	1917	1927	1956	1956	880
35°	1651	1663	1686	1721	1730	1032
45°	1330	1352	1390	1416	1422	1028
55°	984	1013	1051	1048	1028	877
65°	622	654	664	657	648	615
75°	276	314	333	346	336	300
85°	51	60	70	64	64	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2196.7	2196.7	2196.7	2196.7	2196.7
2.5°	2199.9	2196.7	2187.2	2199.9	2203.1
5°	2190.4	2187.2	2180.9	2193.6	2193.6
7.5°	2174.5	2174.5	2168.2	2184.0	2187.2
10°	2152.3	2152.3	2149.1	2165.0	2168.2
12.5°	2126.9	2130.1	2126.9	2142.8	2142.8
15°	2092.0	2098.3	2098.3	2114.2	2114.2
17.5°	2053.9	2060.2	2066.6	2079.3	2079.3
20°	2015.8	2015.8	2022.1	2041.2	2044.4
22.5°	1968.2	1971.3	1974.5	1999.9	2006.3
25°	1911.0	1917.4	1926.9	1955.5	1955.5
27.5°	1853.9	1863.4	1872.9	1901.5	1904.7
30°	1787.2	1796.7	1815.8	1841.2	1847.5
32.5°	1720.6	1730.1	1755.5	1780.9	1790.4
35°	1650.7	1663.4	1685.6	1720.6	1730.1
37.5°	1577.7	1587.2	1615.8	1653.9	1660.2
40°	1501.5	1511.0	1542.8	1577.7	1587.2
42.5°	1419.0	1431.7	1472.9	1504.7	1504.7
45°	1330.1	1352.3	1390.4	1415.8	1422.2
47.5°	1247.6	1263.4	1314.2	1336.4	1333.3
50°	1158.7	1180.9	1234.9	1241.2	1228.5
52.5°	1066.6	1095.2	1139.6	1146.0	1136.5
55°	984.1	1012.7	1050.7	1047.6	1028.5
57.5°	892.0	923.8	958.7	939.6	920.6
60°	800.0	831.7	863.5	834.9	822.2
62.5°	707.9	742.8	765.0	736.5	733.3
65°	622.2	653.9	663.5	657.1	647.6
67.5°	533.3	568.2	574.6	571.4	568.2
70°	444.4	482.5	485.7	492.0	492.0
72.5°	358.7	396.8	409.5	419.0	412.7
75°	276.2	314.3	333.3	346.0	336.5
77.5°	209.5	238.1	263.5	263.5	263.5
80°	146.0	171.4	190.5	193.6	190.5
82.5°	92.1	111.1	127.0	120.6	120.6
85°	50.8	60.3	69.8	63.5	63.5
87.5°	19.0	22.2	19.0	15.9	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)