

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: P219976

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35871)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-5L30-LD5-UNV-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5394.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

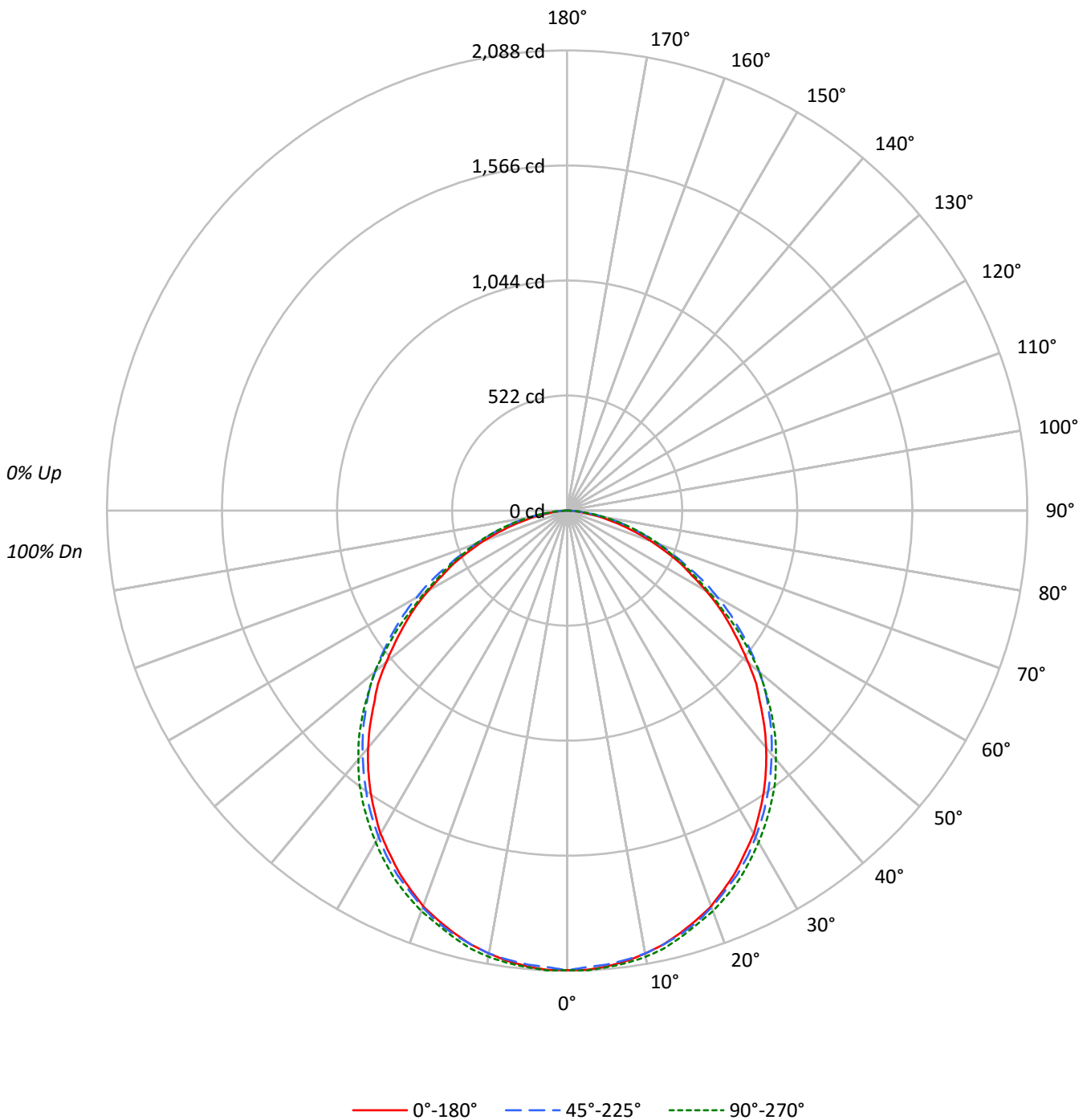
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5611	5611	5611
5°	5609	5585	5617
10°	5576	5576	5617
15°	5528	5545	5578
20°	5470	5487	5538
25°	5371	5415	5486
30°	5261	5317	5400
35°	5113	5201	5308
40°	4936	5071	5176
45°	4714	4929	4997
50°	4489	4763	4775
55°	4223	4529	4418
60°	3917	4252	4013
65°	3613	3840	3726
70°	3179	3459	3482
75°	2625	3119	3150
80°	2025	2624	2577
85°	1377	1834	1741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	3.7
10°-20°	562.3	10.4
20°-30°	841.5	15.6
30°-40°	991.5	18.4
40°-50°	992.1	18.4
50°-60°	842.4	15.6
60°-70°	588.1	10.9
70°-80°	309.7	5.7
80°-90°	69.9	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°	1601.0	29.7
0°-40°	2592.5	48.1
0°-60°	4427.1	82.1
0°-90°	5394.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5394.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2076	2076	2068	2079	2079	197
15°	1984	1990	1990	2002	2002	560
25°	1809	1818	1824	1848	1848	832
35°	1556	1565	1583	1610	1616	972
45°	1239	1260	1295	1316	1313	958
55°	900	933	965	960	942	805
65°	567	597	603	591	585	557
75°	252	285	300	303	303	272
85°	45	56	59	56	56	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2085.3	2085.3	2085.3	2085.3	2085.3
2.5°	2085.3	2082.3	2073.4	2085.3	2088.3
5°	2076.4	2076.4	2067.5	2079.3	2079.3
7.5°	2061.5	2064.5	2055.6	2070.4	2070.4
10°	2040.7	2043.7	2040.7	2055.6	2055.6
12.5°	2017.0	2019.9	2017.0	2031.8	2034.8
15°	1984.3	1990.2	1990.2	2002.1	2002.1
17.5°	1948.6	1954.6	1957.5	1966.5	1966.5
20°	1910.0	1916.0	1916.0	1930.8	1933.8
22.5°	1859.5	1868.4	1868.4	1892.2	1892.2
25°	1809.0	1817.9	1823.9	1847.6	1847.6
27.5°	1749.6	1758.5	1770.4	1794.2	1794.2
30°	1693.2	1696.1	1711.0	1728.8	1737.7
32.5°	1624.9	1633.8	1648.6	1675.4	1678.3
35°	1556.5	1565.4	1583.3	1610.0	1615.9
37.5°	1482.3	1491.2	1514.9	1547.6	1550.6
40°	1405.0	1414.0	1443.7	1476.3	1473.4
42.5°	1324.8	1336.7	1372.4	1396.1	1399.1
45°	1238.7	1259.5	1295.1	1315.9	1313.0
47.5°	1164.4	1179.3	1220.9	1229.8	1223.8
50°	1072.3	1099.1	1137.7	1143.6	1140.7
52.5°	983.2	1010.0	1051.6	1051.6	1036.7
55°	900.1	932.7	965.4	959.5	941.6
57.5°	816.9	843.6	879.3	861.4	834.7
60°	727.8	760.4	790.1	760.4	745.6
62.5°	638.7	683.2	701.0	668.4	659.4
65°	567.4	597.1	603.0	591.1	585.2
67.5°	481.2	519.8	519.8	513.9	508.0
70°	404.0	436.7	439.6	442.6	442.6
72.5°	323.8	362.4	365.4	374.3	371.3
75°	252.5	285.2	300.0	303.0	303.0
77.5°	187.1	213.9	234.7	234.7	231.7
80°	130.7	154.5	169.3	169.3	166.3
82.5°	80.2	101.0	112.9	109.9	109.9
85°	44.6	56.4	59.4	56.4	56.4
87.5°	17.8	20.8	17.8	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)