

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: P220248

Luminaire Tested: **R3-WN-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35864)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-5L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6968.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

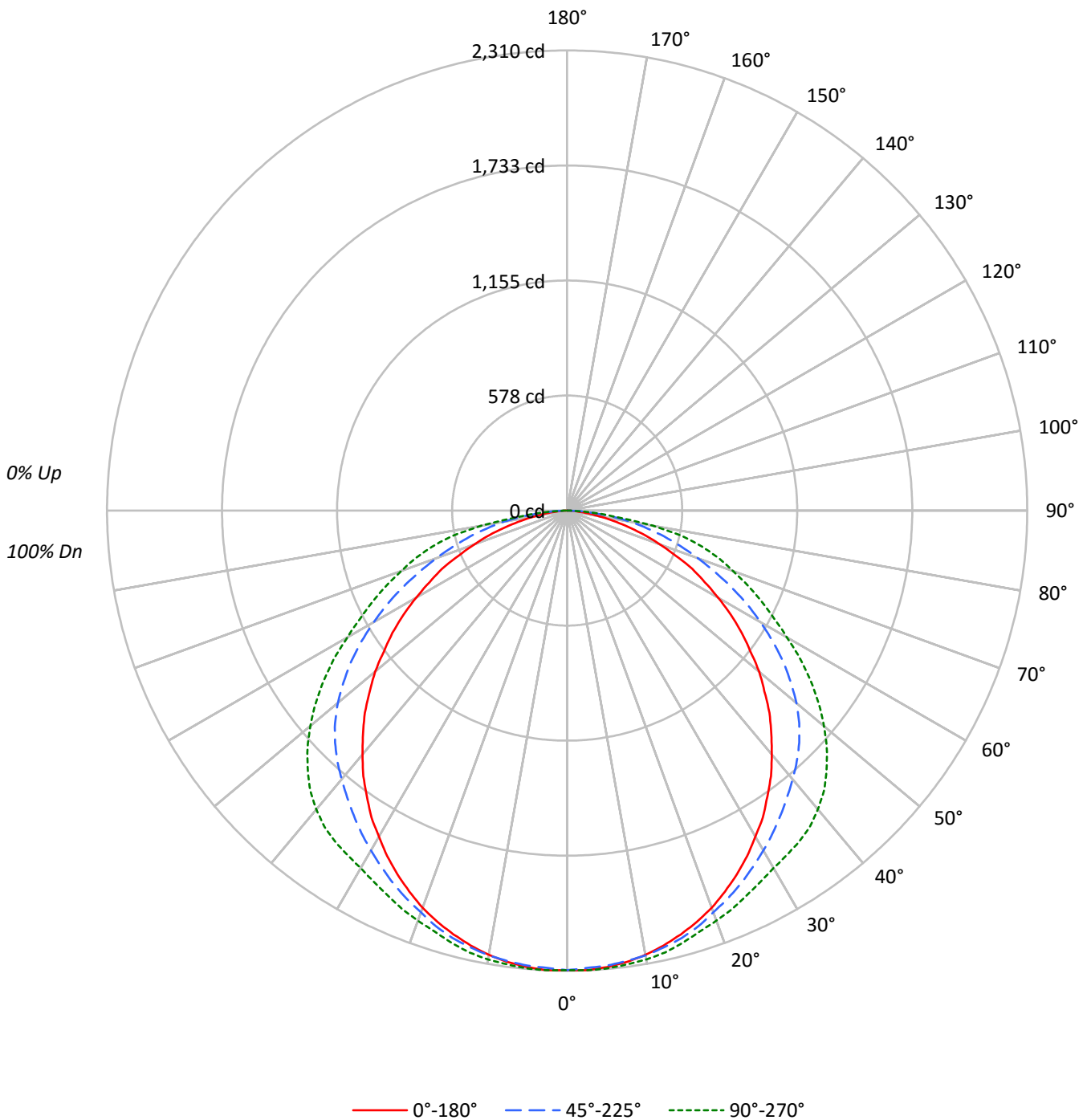
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3104	3104	3104
5°	3107	3097	3116
10°	3094	3097	3126
15°	3068	3095	3128
20°	3039	3073	3137
25°	2992	3066	3165
30°	2936	3061	3220
35°	2877	3068	3334
40°	2806	3094	3440
45°	2733	3135	3505
50°	2633	3145	3523
55°	2511	3107	3502
60°	2357	3015	3430
65°	2207	2895	3423
70°	1952	2746	3483
75°	1641	2628	3653
80°	1251	2501	3366
85°	843	1832	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	3.1
10°-20°	627.6	9.0
20°-30°	955.6	13.7
30°-40°	1177.5	16.9
40°-50°	1264.1	18.1
50°-60°	1160.5	16.7
60°-70°	887.7	12.7
70°-80°	538.2	7.7
80°-90°	138.3	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°	1801.9	25.9
0°-40°	2979.5	42.8
0°-60°	5404.1	77.6
0°-90°	6968.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6968.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2307	2307	2307	2307	2307	
5°	2300	2298	2293	2305	2307	218
15°	2203	2210	2222	2243	2246	621
25°	2015	2034	2065	2117	2132	928
35°	1752	1780	1868	1982	2030	1096
45°	1436	1481	1647	1797	1842	1105
55°	1071	1142	1325	1453	1493	955
65°	693	762	909	1030	1075	679
75°	316	384	506	646	703	340
85°	55	93	119	135	145	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2307.3	2307.3	2307.3	2307.3	2307.3
2.5°	2309.7	2307.3	2297.8	2307.3	2309.7
5°	2300.2	2297.8	2293.1	2304.9	2307.3
7.5°	2285.9	2285.9	2281.2	2297.8	2297.8
10°	2264.6	2264.6	2266.9	2283.6	2288.3
12.5°	2236.1	2240.8	2245.6	2269.3	2271.7
15°	2202.8	2210.0	2221.8	2243.2	2245.6
17.5°	2164.9	2174.4	2188.6	2210.0	2214.7
20°	2122.1	2131.6	2145.9	2181.5	2191.0
22.5°	2069.9	2088.9	2107.9	2150.6	2164.9
25°	2015.3	2034.3	2065.2	2117.4	2131.6
27.5°	1956.0	1975.0	2017.7	2079.4	2100.8
30°	1889.5	1913.3	1970.2	2041.4	2072.3
32.5°	1827.8	1849.2	1920.4	2010.6	2050.9
35°	1751.8	1780.3	1868.1	1982.1	2029.6
37.5°	1680.6	1709.1	1813.6	1953.6	2001.1
40°	1597.5	1635.5	1761.3	1913.3	1958.4
42.5°	1516.8	1559.6	1706.7	1861.0	1908.5
45°	1436.1	1481.2	1647.4	1796.9	1842.0
47.5°	1343.5	1398.1	1580.9	1728.1	1768.5
50°	1258.1	1317.4	1502.6	1645.0	1683.0
52.5°	1158.4	1232.0	1414.8	1557.2	1592.8
55°	1070.6	1141.8	1324.6	1452.7	1493.1
57.5°	975.6	1053.9	1224.9	1348.3	1388.6
60°	875.9	956.6	1120.4	1243.9	1274.7
62.5°	778.6	871.2	1018.3	1132.3	1170.3
65°	693.1	762.0	909.2	1030.2	1075.3
67.5°	588.7	664.7	800.0	925.8	980.4
70°	496.1	569.7	697.9	830.8	885.4
72.5°	408.3	472.4	598.2	738.2	800.0
75°	315.7	384.5	505.6	645.7	702.6
77.5°	237.4	301.5	410.7	550.7	591.1
80°	161.4	223.1	322.8	420.2	434.4
82.5°	102.1	154.3	220.8	249.2	249.2
85°	54.6	92.6	118.7	135.3	144.8
87.5°	21.4	30.9	45.1	45.1	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)