

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: P220206

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35861)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-5L40-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7171.1 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

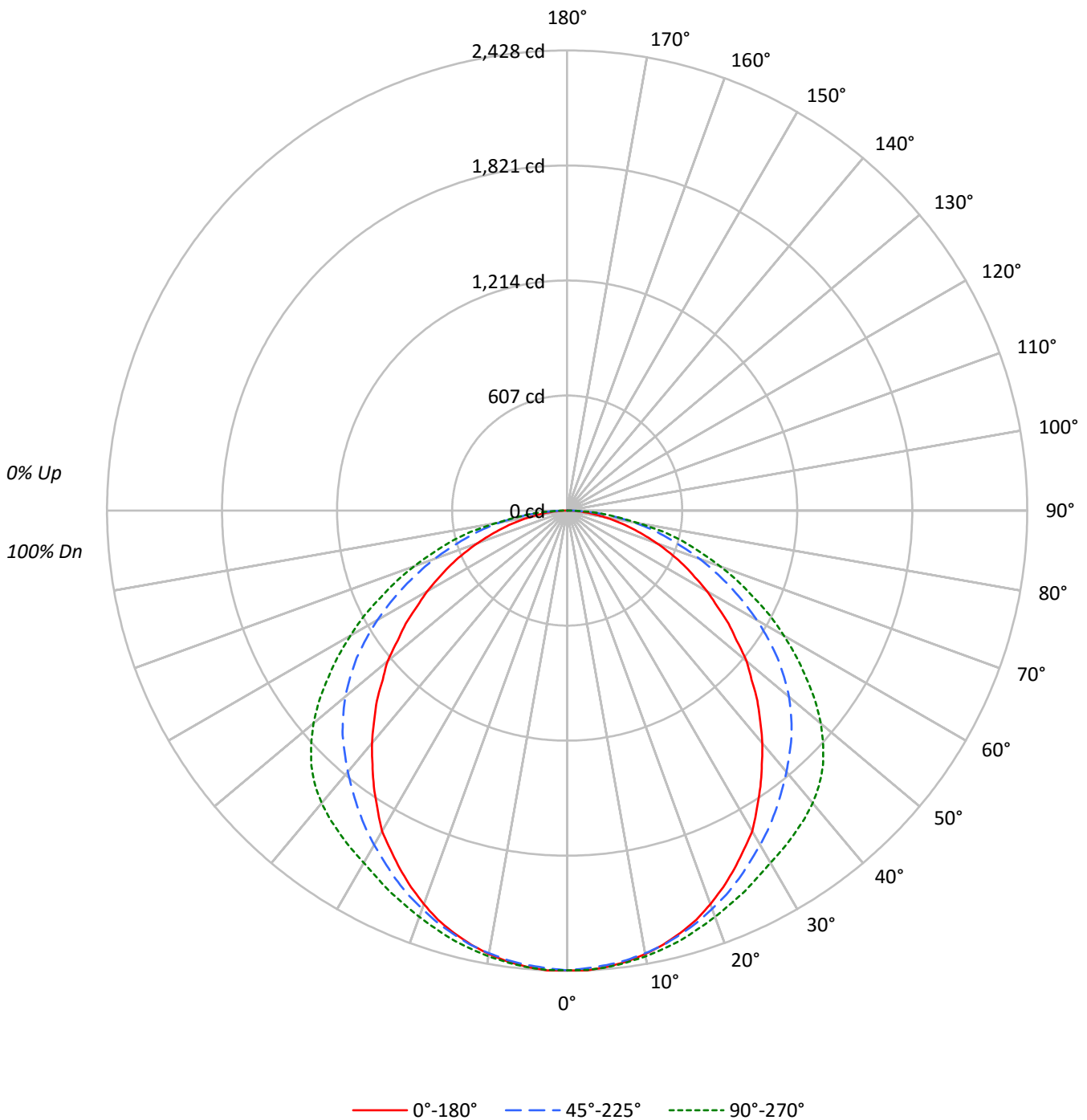
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90		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	63	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		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	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3264	3264	3264
5°	3264	3251	3267
10°	3246	3240	3263
15°	3214	3224	3264
20°	3164	3202	3266
25°	3098	3182	3291
30°	3035	3164	3334
35°	2920	3158	3427
40°	2814	3160	3540
45°	2701	3189	3632
50°	2589	3200	3657
55°	2439	3179	3614
60°	2293	3111	3552
65°	2154	3015	3461
70°	1980	2923	3380
75°	1789	2826	3307
80°	1564	2777	2961
85°	1355	2492	2748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	3.2
10°-20°	655.0	9.1
20°-30°	990.7	13.8
30°-40°	1208.3	16.8
40°-50°	1286.0	17.9
50°-60°	1178.8	16.4
60°-70°	906.1	12.6
70°-80°	549.0	7.7
80°-90°	167.9	2.3
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°	1875.1	26.1
0°-40°	3083.4	43.0
0°-60°	5548.2	77.4
0°-90°	7171.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7171.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2426	2426	2426	2426	2426	
5°	2416	2414	2407	2419	2419	229
15°	2307	2310	2314	2336	2343	650
25°	2086	2103	2144	2196	2217	961
35°	1778	1821	1923	2041	2086	1112
45°	1420	1486	1676	1854	1908	1093
55°	1040	1130	1355	1503	1541	927
65°	676	762	947	1061	1087	668
75°	344	420	544	624	636	366
85°	88	131	161	180	178	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2426.0	2426.0	2426.0	2426.0	2426.0
2.5°	2428.4	2423.6	2416.5	2426.0	2426.0
5°	2416.5	2414.1	2407.0	2418.9	2418.9
7.5°	2399.9	2397.5	2392.7	2407.0	2404.6
10°	2376.1	2373.8	2371.4	2388.0	2388.0
12.5°	2345.3	2345.3	2347.6	2364.3	2366.6
15°	2307.3	2309.7	2314.4	2335.8	2342.9
17.5°	2264.6	2266.9	2278.8	2307.3	2312.0
20°	2210.0	2217.1	2236.1	2274.1	2281.2
22.5°	2150.6	2162.5	2193.4	2236.1	2248.0
25°	2086.5	2103.2	2143.5	2195.7	2217.1
27.5°	2017.7	2036.7	2088.9	2155.4	2179.1
30°	1953.6	1972.6	2036.7	2119.8	2145.9
32.5°	1863.4	1896.6	1982.1	2079.4	2117.4
35°	1777.9	1820.7	1922.7	2041.4	2086.5
37.5°	1687.7	1742.3	1861.0	2005.8	2053.3
40°	1602.3	1659.3	1799.3	1960.7	2015.3
42.5°	1507.3	1573.8	1737.6	1910.9	1967.8
45°	1419.5	1486.0	1675.9	1853.9	1908.5
47.5°	1319.8	1398.1	1602.3	1787.4	1832.5
50°	1236.7	1310.3	1528.7	1699.6	1747.1
52.5°	1127.5	1224.9	1443.2	1604.7	1649.8
55°	1039.7	1129.9	1355.4	1502.6	1540.6
57.5°	937.6	1046.8	1255.7	1400.5	1433.8
60°	852.2	947.1	1156.0	1289.0	1319.8
62.5°	759.6	861.7	1051.6	1175.0	1210.6
65°	676.5	762.0	947.1	1061.1	1087.2
67.5°	588.7	676.5	845.1	949.5	975.6
70°	503.2	595.8	743.0	837.9	859.3
72.5°	420.2	500.9	638.5	731.1	743.0
75°	344.2	420.2	543.6	624.3	636.2
77.5°	273.0	341.8	453.4	517.5	522.2
80°	201.8	268.2	358.4	391.7	382.2
82.5°	142.4	194.6	261.1	268.2	263.5
85°	87.8	130.6	161.4	180.4	178.0
87.5°	38.0	59.3	83.1	78.3	83.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)