

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: P219969

Luminaire Tested: **R3-WG-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219969
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-2L40-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: 2895.6 lumens
Efficiency: N/A
Efficacy: 121.7 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

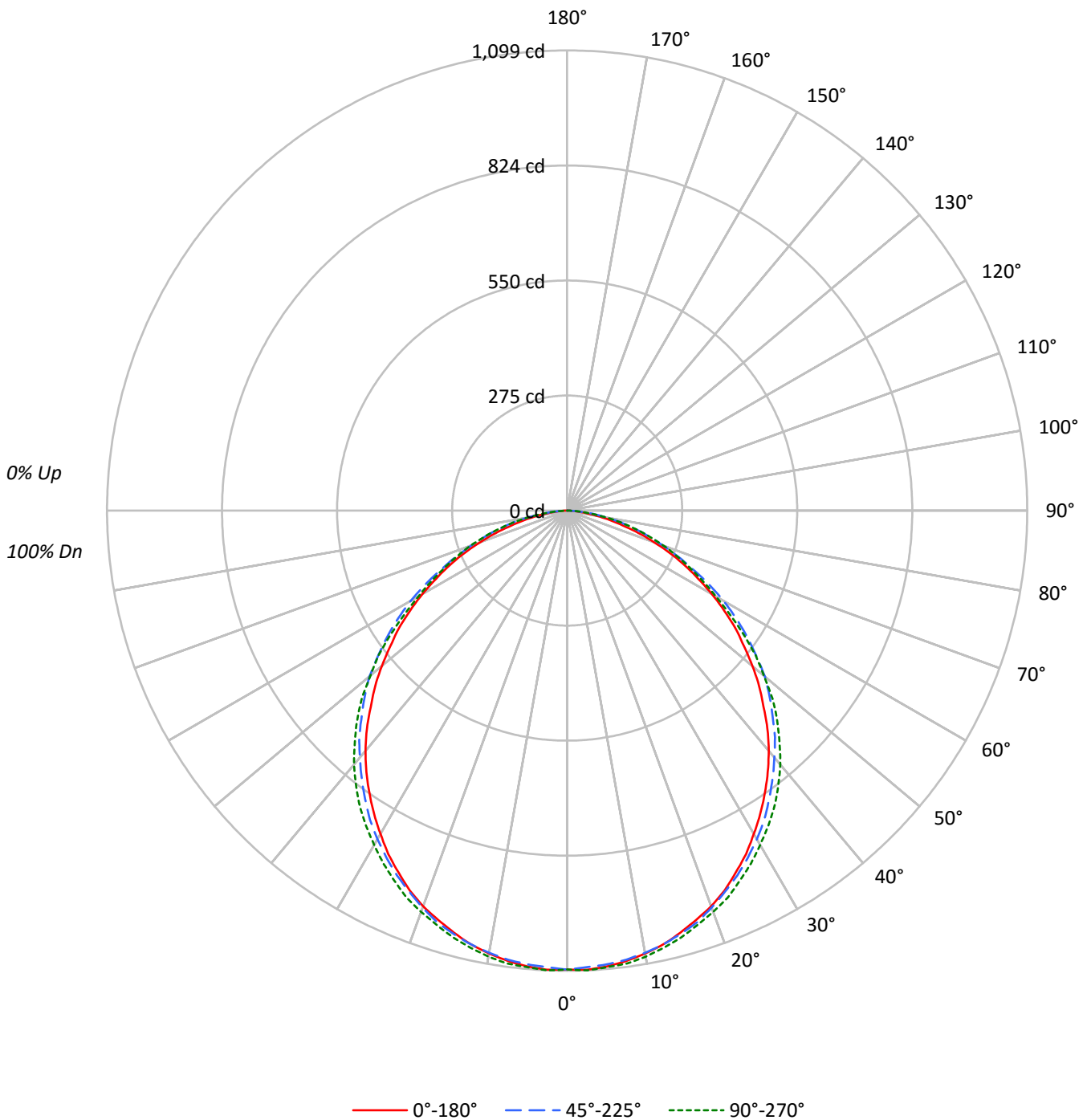
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2949	2949	2949
5°	2952	2939	2957
10°	2934	2930	2956
15°	2908	2917	2939
20°	2880	2889	2921
25°	2831	2855	2897
30°	2771	2815	2864
35°	2706	2763	2836
40°	2632	2704	2782
45°	2525	2640	2700
50°	2420	2579	2566
55°	2304	2460	2408
60°	2148	2319	2208
65°	1976	2108	2057
70°	1744	1906	1932
75°	1433	1729	1746
80°	1130	1472	1472
85°	781	1074	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.6
10°-20°	296.0	10.2
20°-30°	444.2	15.3
30°-40°	526.9	18.2
40°-50°	532.5	18.4
50°-60°	457.9	15.8
60°-70°	323.1	11.2
70°-80°	172.2	5.9
80°-90°	39.0	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°	843.9	29.1
0°-40°	1370.8	47.3
0°-60°	2361.2	81.5
0°-90°	2895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1093	1091	1088	1094	1094	104
15°	1044	1047	1047	1055	1055	294
25°	954	957	961	976	976	439
35°	824	830	841	858	863	515
45°	664	675	694	706	710	513
55°	491	505	524	523	513	437
65°	310	326	331	328	323	307
75°	138	157	166	173	168	150
85°	25	30	35	32	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.0	1096.0	1096.0	1096.0	1096.0
2.5°	1097.6	1096.0	1091.3	1097.6	1099.2
5°	1092.9	1091.3	1088.1	1094.5	1094.5
7.5°	1085.0	1085.0	1081.8	1089.7	1091.3
10°	1073.9	1073.9	1072.3	1080.2	1081.8
12.5°	1061.2	1062.8	1061.2	1069.1	1069.1
15°	1043.8	1046.9	1046.9	1054.9	1054.9
17.5°	1024.8	1027.9	1031.1	1037.4	1037.4
20°	1005.8	1005.8	1008.9	1018.4	1020.0
22.5°	982.0	983.6	985.2	997.8	1001.0
25°	953.5	956.7	961.4	975.7	975.7
27.5°	925.0	929.7	934.5	948.7	950.3
30°	891.7	896.5	906.0	918.6	921.8
32.5°	858.5	863.2	875.9	888.6	893.3
35°	823.6	830.0	841.0	858.5	863.2
37.5°	787.2	791.9	806.2	825.2	828.4
40°	749.2	753.9	769.8	787.2	791.9
42.5°	708.0	714.3	734.9	750.8	750.8
45°	663.6	674.7	693.7	706.4	709.6
47.5°	622.5	630.4	655.7	666.8	665.2
50°	578.1	589.2	616.1	619.3	613.0
52.5°	532.2	546.4	568.6	571.8	567.0
55°	491.0	505.3	524.3	522.7	513.2
57.5°	445.1	460.9	478.3	468.8	459.3
60°	399.1	415.0	430.8	416.6	410.2
62.5°	353.2	370.6	381.7	367.5	365.9
65°	310.4	326.3	331.0	327.9	323.1
67.5°	266.1	283.5	286.7	285.1	283.5
70°	221.7	240.7	242.3	245.5	245.5
72.5°	179.0	198.0	204.3	209.1	205.9
75°	137.8	156.8	166.3	172.6	167.9
77.5°	104.5	118.8	131.5	131.5	131.5
80°	72.9	85.5	95.0	96.6	95.0
82.5°	45.9	55.4	63.4	60.2	60.2
85°	25.3	30.1	34.8	31.7	31.7
87.5°	9.5	11.1	9.5	7.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)