

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: P274250

Luminaire Tested: **R6-WL-20L840-LD5-UNV-2-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-915-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R6-WL-20L840-LD5-UNV-2-STD
Description: CORELITE R6 LINEAR PRISMATIC LENS LED LUMINAIRE
6" x 2'
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

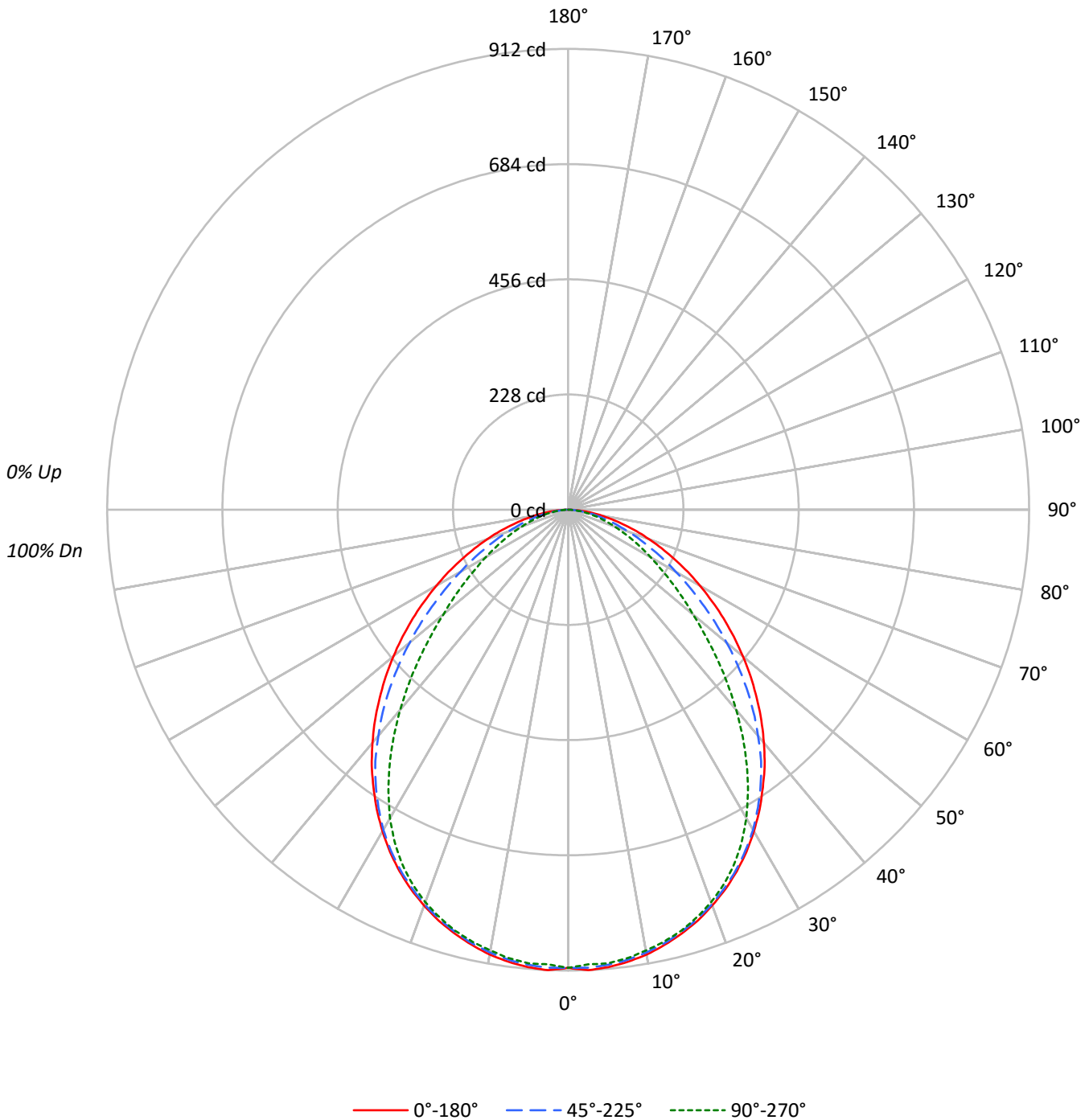
Lumens per Lamp: N/A
Luminaire Lumens: 2050.7 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.16 / 1.27
Luminous Opening: Rectangular (W 0.42' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64				64
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55				55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43				43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38				38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35				35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31				31
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11710	11710	11710
5°	11781	11723	11682
10°	11724	11671	11617
15°	11613	11571	11538
20°	11460	11425	11362
25°	11251	11206	11054
30°	10961	10907	10512
35°	10584	10470	9707
40°	10157	9856	8714
45°	9636	9104	7595
50°	9063	8223	6473
55°	8447	7276	5612
60°	7781	6358	4872
65°	7088	5544	4267
70°	6409	4736	3694
75°	5619	4042	3254
80°	5006	3377	2767
85°	4298	2490	2045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	4.2
10°-20°	243.3	11.9
20°-30°	359.5	17.5
30°-40°	406.4	19.8
40°-50°	372.9	18.2
50°-60°	285.2	13.9
60°-70°	183.9	9.0
70°-80°	91.5	4.5
80°-90°	22.3	1.1
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°	688.5	33.6
0°-40°	1094.9	53.4
0°-60°	1753.0	85.5
0°-90°	2050.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	909	899	904	901	901	86
15°	868	860	865	863	863	245
25°	789	782	786	778	776	363
35°	671	668	664	631	616	420
45°	528	526	498	440	416	407
55°	375	370	323	266	249	335
65°	232	221	181	149	140	231
75°	113	101	81	69	65	122
85°	29	21	17	14	14	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.6	906.6	906.6	906.6	906.6
2.5°	912.2	902.5	907.1	905.1	900.5
5°	908.6	899.0	904.1	901.0	901.0
7.5°	902.5	893.4	898.5	895.4	895.4
10°	893.9	884.7	889.8	886.7	885.7
12.5°	882.1	873.5	879.1	875.5	875.5
15°	868.4	860.2	865.3	863.3	862.8
17.5°	852.6	844.4	849.0	846.5	846.0
20°	833.7	826.1	831.2	826.1	826.6
22.5°	812.8	805.7	809.8	802.6	803.2
25°	789.4	781.8	786.3	777.7	775.6
27.5°	763.4	756.8	759.8	748.1	743.0
30°	734.9	729.3	731.3	714.0	704.8
32.5°	704.3	699.7	698.7	674.2	662.0
35°	671.2	668.1	664.0	630.9	615.6
37.5°	638.5	634.0	626.8	584.5	567.2
40°	602.4	599.3	584.5	537.1	516.8
42.5°	565.7	563.1	542.7	488.7	466.3
45°	527.5	525.9	498.4	439.8	415.8
47.5°	489.7	487.7	454.1	391.4	367.4
50°	451.0	448.0	409.2	345.0	322.1
52.5°	412.8	409.7	365.9	304.2	284.4
55°	375.1	370.0	323.1	266.0	249.2
57.5°	337.4	330.2	283.9	232.4	216.1
60°	301.2	292.5	246.1	201.8	188.6
62.5°	267.0	256.3	213.5	175.3	162.1
65°	231.9	221.2	181.4	148.8	139.6
67.5°	200.3	188.0	152.9	126.4	117.2
70°	169.7	157.0	125.4	105.0	97.8
72.5°	142.2	127.9	102.4	86.1	81.0
75°	112.6	101.4	81.0	68.8	65.2
77.5°	89.7	77.5	62.2	53.0	51.0
80°	67.3	56.1	45.4	39.2	37.2
82.5°	46.9	37.2	30.1	26.0	25.0
85°	29.0	21.4	16.8	14.3	13.8
87.5°	12.7	7.6	6.1	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)