

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: P274242

Luminaire Tested: **R6-WL-20L840-LD5-UNV-4-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-915-1)
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-4-STD
Description: CORELITE R6 LINEAR PRISMATIC LENS LED LUMINAIRE
6" x 4'
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2115.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

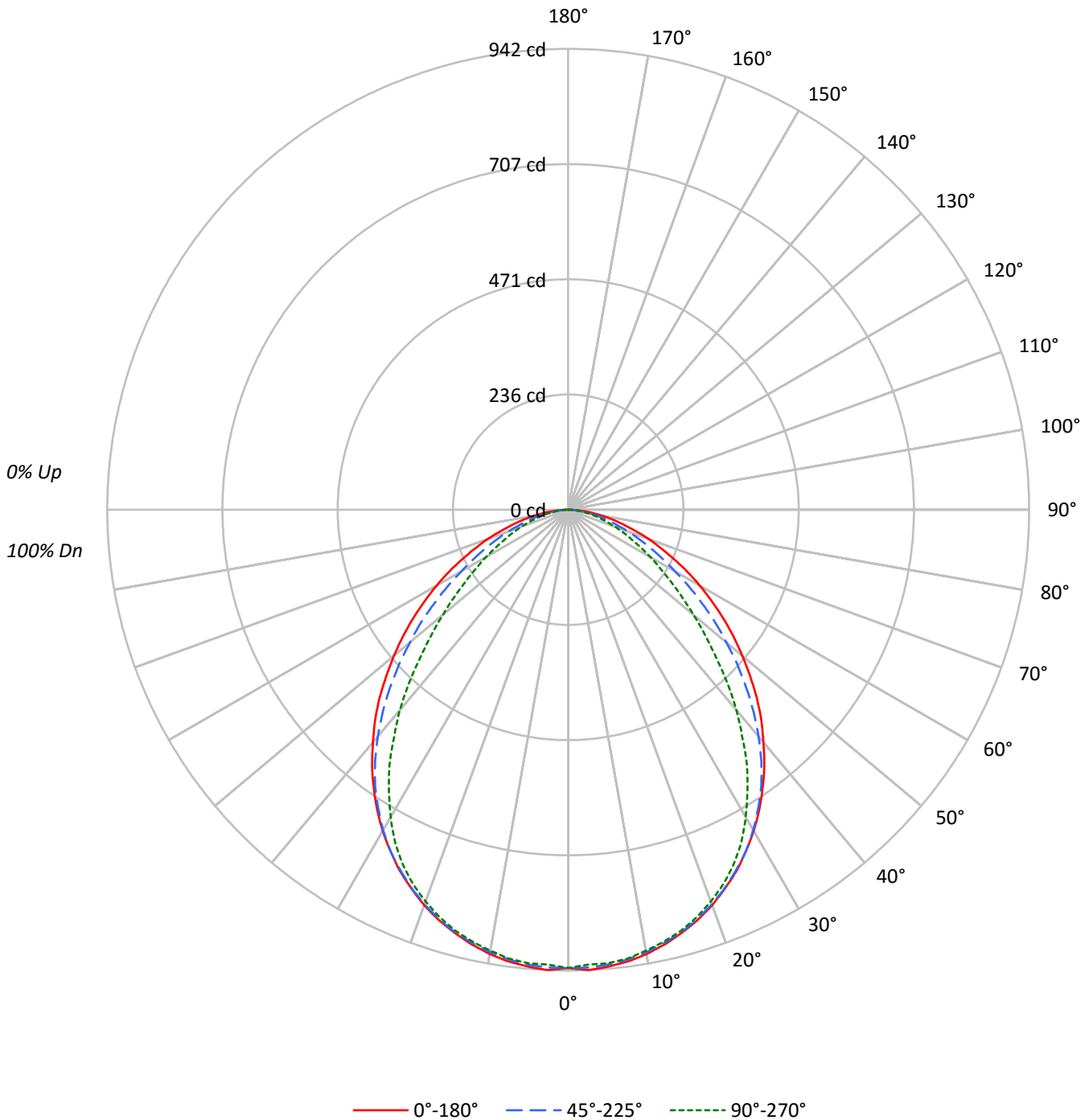
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6050	6050	6050
5°	6079	6053	6033
10°	6049	6022	6003
15°	5990	5977	5956
20°	5912	5898	5856
25°	5803	5788	5702
30°	5655	5640	5412
35°	5465	5424	5022
40°	5233	5104	4511
45°	4980	4701	3901
50°	4670	4240	3359
55°	4350	3764	2880
60°	4016	3251	2515
65°	3629	2835	2181
70°	3291	2443	1924
75°	2900	2086	1679
80°	2577	1707	1439
85°	2193	1282	1060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	4.2
10°-20°	251.2	11.9
20°-30°	371.1	17.5
30°-40°	419.6	19.8
40°-50°	384.8	18.2
50°-60°	294.2	13.9
60°-70°	188.5	8.9
70°-80°	94.2	4.5
80°-90°	22.9	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°	710.8	33.6
0°-40°	1130.3	53.4
0°-60°	1809.4	85.5
0°-90°	2115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	938	928	934	931	931	89
15°	896	888	894	891	891	253
25°	814	807	812	802	800	374
35°	693	689	688	650	637	433
45°	545	542	515	454	427	420
55°	386	382	334	273	256	346
65°	238	227	186	152	143	237
75°	116	105	84	71	67	125
85°	30	21	17	15	14	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.7	936.7	936.7	936.7	936.7
2.5°	941.8	931.6	936.7	934.6	930.6
5°	937.7	928.5	933.6	930.6	930.6
7.5°	931.6	922.4	927.5	924.4	925.5
10°	922.4	913.2	918.3	915.3	915.3
12.5°	910.2	902.0	907.1	903.0	904.1
15°	895.9	887.7	893.9	890.8	890.8
17.5°	879.6	872.5	877.6	873.5	873.5
20°	860.2	853.1	858.2	852.1	852.1
22.5°	837.8	831.7	836.8	828.6	828.6
25°	814.4	807.2	812.3	802.1	800.1
27.5°	786.8	780.7	786.8	772.6	766.5
30°	758.3	752.2	756.3	736.9	725.7
32.5°	726.7	722.6	722.6	695.1	681.9
35°	693.1	689.0	688.0	650.3	637.0
37.5°	658.4	654.3	648.2	603.4	584.0
40°	620.7	617.7	605.4	554.5	535.1
42.5°	584.0	581.0	560.6	504.5	482.1
45°	545.3	542.2	514.7	453.6	427.1
47.5°	504.5	502.5	468.8	403.6	379.2
50°	464.8	461.7	422.0	355.7	334.3
52.5°	426.0	423.0	379.2	313.9	293.5
55°	386.3	382.2	334.3	273.2	255.8
57.5°	347.6	341.4	292.5	239.5	222.2
60°	310.9	302.7	251.7	205.9	194.7
62.5°	274.2	264.0	217.1	179.4	166.1
65°	237.5	227.3	185.5	151.9	142.7
67.5°	204.9	192.6	155.9	129.4	121.3
70°	174.3	161.0	129.4	108.0	101.9
72.5°	143.7	131.5	105.0	88.7	83.6
75°	116.2	105.0	83.6	71.3	67.3
77.5°	92.7	79.5	64.2	55.0	53.0
80°	69.3	57.1	45.9	40.8	38.7
82.5°	48.9	37.7	30.6	26.5	25.5
85°	29.6	21.4	17.3	15.3	14.3
87.5°	14.3	8.2	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)