

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: P220069

Luminaire Tested: **R3-WL-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-2L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2639.7 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

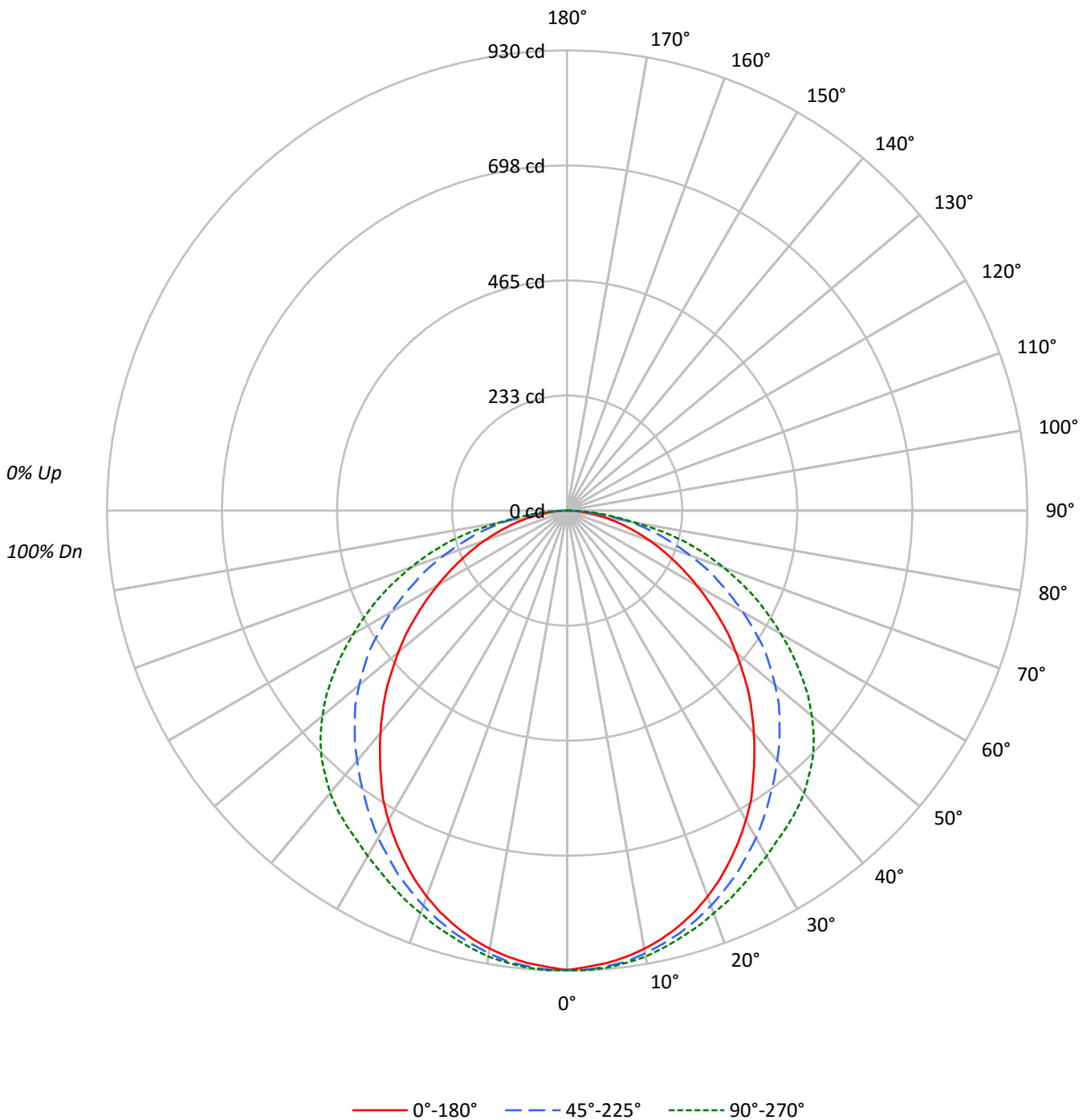
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2498	2498	2498
5°	2479	2497	2504
10°	2457	2482	2501
15°	2424	2461	2487
20°	2377	2434	2480
25°	2315	2406	2485
30°	2245	2373	2505
35°	2155	2339	2553
40°	2062	2319	2617
45°	1971	2310	2674
50°	1863	2297	2702
55°	1751	2274	2704
60°	1630	2209	2688
65°	1505	2148	2681
70°	1400	2079	2644
75°	1271	2030	2596
80°	1133	1956	2162
85°	1025	1559	1886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.3
10°-20°	248.9	9.4
20°-30°	372.9	14.1
30°-40°	447.6	17.0
40°-50°	469.0	17.8
50°-60°	427.3	16.2
60°-70°	329.9	12.5
70°-80°	200.2	7.6
80°-90°	56.2	2.1
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°	709.5	26.9
0°-40°	1157.1	43.8
0°-60°	2053.4	77.8
0°-90°	2639.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2639.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	918	920	924	927	927	87
15°	870	875	883	891	893	245
25°	780	789	810	829	837	359
35°	656	672	712	758	777	410
45°	518	541	607	676	703	399
55°	373	404	485	551	576	334
65°	236	270	337	397	421	236
75°	122	146	195	236	250	130
85°	33	40	50	58	61	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.4	928.4	928.4	928.4	928.4
2.5°	923.1	924.4	928.4	929.7	929.7
5°	917.8	920.4	924.4	927.1	927.1
7.5°	909.8	912.5	919.1	921.8	921.8
10°	899.2	903.2	908.5	913.8	915.1
12.5°	885.9	889.9	896.5	903.2	904.5
15°	870.0	875.3	883.3	891.2	892.6
17.5°	851.4	856.7	867.3	877.9	880.6
20°	830.1	835.4	850.1	863.3	866.0
22.5°	806.2	814.2	830.1	847.4	852.7
25°	779.7	789.0	810.2	828.8	836.8
27.5°	751.8	762.4	786.3	811.5	820.8
30°	722.5	733.2	763.7	792.9	806.2
32.5°	692.0	702.6	738.5	775.7	790.3
35°	656.1	672.1	711.9	758.4	777.0
37.5°	621.6	640.2	686.7	741.1	762.4
40°	587.1	607.0	660.1	721.2	745.1
42.5°	552.5	573.8	634.9	701.3	723.9
45°	518.0	540.6	607.0	676.1	702.6
47.5°	480.8	506.0	580.4	648.2	676.1
50°	445.0	472.8	548.6	620.3	645.5
52.5°	410.4	437.0	516.7	588.4	613.6
55°	373.2	403.8	484.8	551.2	576.4
57.5°	337.4	369.2	446.3	515.3	539.3
60°	302.8	333.4	410.4	476.8	499.4
62.5°	269.6	301.5	373.2	437.0	459.6
65°	236.4	269.6	337.4	397.1	421.0
67.5°	207.2	236.4	302.8	358.6	378.5
70°	178.0	203.2	264.3	317.4	336.0
72.5°	148.8	174.0	228.5	276.3	293.5
75°	122.2	146.1	195.2	236.4	249.7
77.5°	97.0	118.2	160.7	193.9	197.9
80°	73.1	90.3	126.2	140.8	139.5
82.5°	53.1	65.1	85.0	95.6	95.6
85°	33.2	39.8	50.5	58.4	61.1
87.5°	14.6	17.3	21.3	22.6	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)