

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: P220114

Luminaire Tested: **R3-WN-2L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35856)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-2L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532.8 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

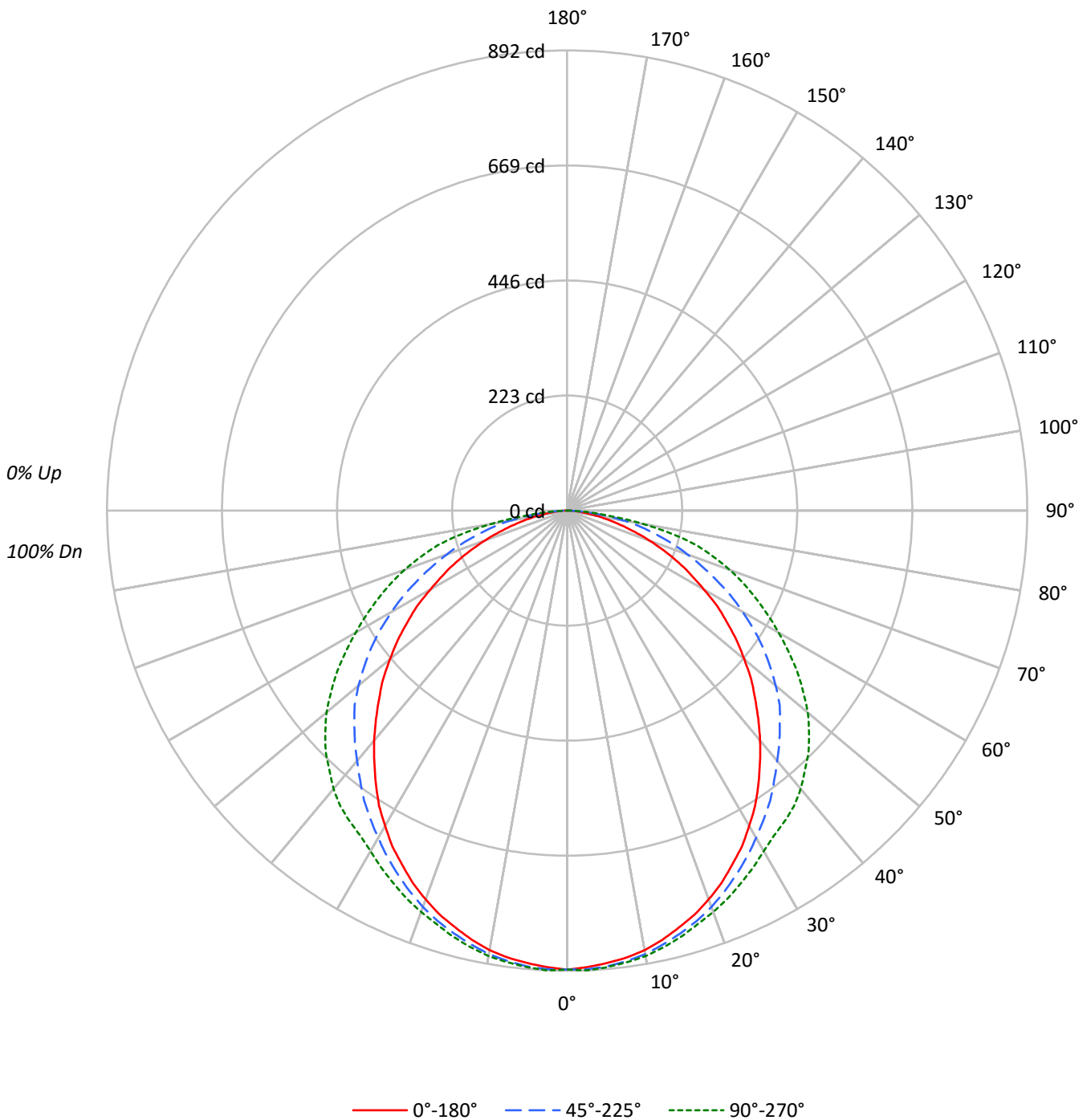
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	34	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°	2394	2394	2394
5°	2379	2396	2400
10°	2364	2385	2396
15°	2332	2364	2382
20°	2297	2341	2371
25°	2248	2309	2366
30°	2192	2276	2368
35°	2123	2254	2415
40°	2044	2225	2474
45°	1960	2219	2519
50°	1876	2210	2550
55°	1776	2175	2555
60°	1649	2113	2550
65°	1517	2033	2574
70°	1337	1955	2633
75°	1111	1861	2704
80°	877	1736	2314
85°	596	1232	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	3.3
10°-20°	239.1	9.4
20°-30°	358.4	14.2
30°-40°	430.6	17.0
40°-50°	452.0	17.8
50°-60°	412.4	16.3
60°-70°	317.7	12.5
70°-80°	191.1	7.5
80°-90°	47.4	1.9
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°	681.6	26.9
0°-40°	1112.1	43.9
0°-60°	1976.6	78.0
0°-90°	2532.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	881	883	887	888	888	84
15°	837	841	848	854	855	236
25°	757	764	778	792	797	349
35°	646	657	686	718	735	404
45°	515	532	583	639	662	398
55°	378	403	464	521	545	339
65°	238	264	319	378	404	235
75°	107	133	179	234	260	115
85°	19	28	40	46	50	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.7	889.7	889.7	889.7	889.7
2.5°	885.8	887.1	889.7	892.2	892.2
5°	880.6	883.2	887.1	888.4	888.4
7.5°	874.2	876.8	880.6	883.2	883.2
10°	865.2	866.5	872.9	875.5	876.8
12.5°	852.3	856.2	861.3	866.5	866.5
15°	836.9	840.7	848.5	853.6	854.9
17.5°	821.4	825.3	834.3	840.7	840.7
20°	802.1	807.3	817.6	825.3	827.9
22.5°	781.5	786.7	798.2	808.5	813.7
25°	757.0	763.5	777.6	791.8	797.0
27.5°	733.9	739.0	755.8	775.1	780.2
30°	705.5	713.3	732.6	754.5	762.2
32.5°	678.5	686.2	709.4	735.2	746.7
35°	646.3	656.6	686.2	718.4	735.2
37.5°	614.1	625.7	659.2	701.7	722.3
40°	581.9	594.8	633.4	686.2	704.3
42.5°	548.5	563.9	609.0	664.3	682.4
45°	515.0	531.7	583.2	638.6	661.8
47.5°	484.1	500.8	558.8	614.1	636.0
50°	448.0	468.6	527.9	587.1	609.0
52.5°	414.6	433.9	495.7	554.9	576.8
55°	378.5	403.0	463.5	521.4	544.6
57.5°	345.0	366.9	428.7	485.4	508.6
60°	306.4	332.2	392.7	449.3	473.8
62.5°	271.7	297.4	357.9	413.3	439.0
65°	238.2	263.9	319.3	378.5	404.3
67.5°	203.4	230.5	283.2	343.8	370.8
70°	169.9	194.4	248.5	307.7	334.7
72.5°	136.5	162.2	213.7	271.7	297.4
75°	106.9	132.6	179.0	234.3	260.1
77.5°	81.1	101.7	146.8	193.1	208.6
80°	56.6	76.0	112.0	142.9	149.3
82.5°	36.0	51.5	73.4	90.1	88.8
85°	19.3	28.3	39.9	46.3	50.2
87.5°	9.0	10.3	12.9	16.7	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)