

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: P220080

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R3-WG-2L35-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2393.2 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

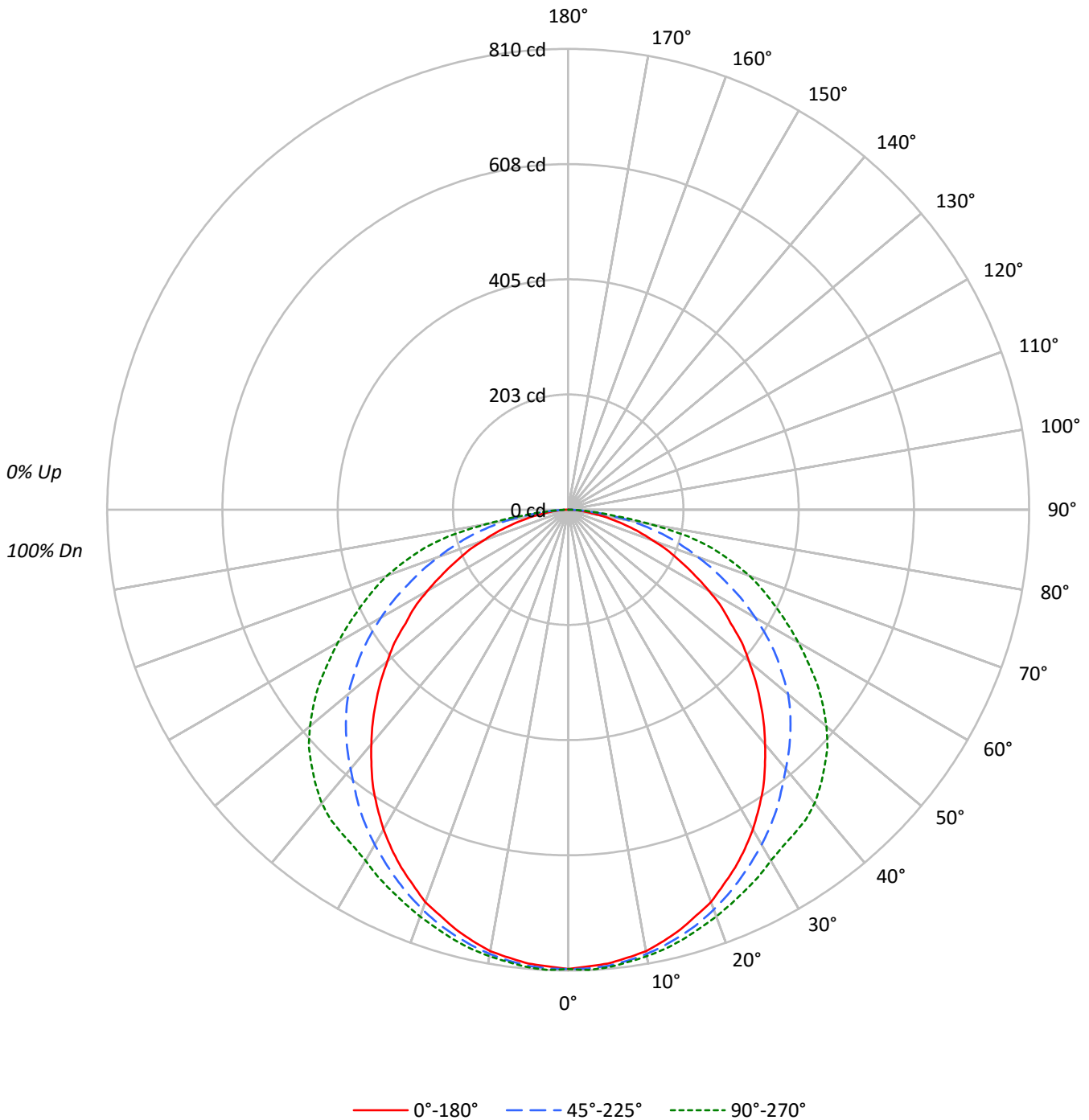
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2172	2172	2172
5°	2163	2174	2181
10°	2153	2167	2178
15°	2127	2156	2177
20°	2102	2142	2179
25°	2061	2125	2190
30°	2016	2112	2212
35°	1963	2102	2280
40°	1891	2089	2366
45°	1818	2102	2425
50°	1736	2113	2479
55°	1637	2090	2507
60°	1538	2044	2516
65°	1402	1976	2558
70°	1256	1904	2664
75°	1084	1848	2730
80°	859	1695	2275
85°	636	1112	1232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	3.2
10°-20°	218.2	9.1
20°-30°	330.1	13.8
30°-40°	402.2	16.8
40°-50°	428.4	17.9
50°-60°	395.7	16.5
60°-70°	308.5	12.9
70°-80°	189.0	7.9
80°-90°	44.8	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°	624.7	26.1
0°-40°	1026.9	42.9
0°-60°	1851.0	77.3
0°-90°	2393.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	801	802	805	806	807	76
15°	764	766	774	780	782	215
25°	694	700	716	731	738	319
35°	597	608	640	676	694	373
45°	478	497	552	615	637	368
55°	349	380	446	510	534	314
65°	220	251	310	372	402	219
75°	104	128	178	236	263	111
85°	21	28	36	42	40	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	807.3	807.3	807.3	807.3	807.3
2.5°	803.4	804.7	807.3	808.5	809.8
5°	800.8	802.1	804.7	806.0	807.3
7.5°	794.4	797.0	799.5	802.1	802.1
10°	787.9	789.2	793.1	795.7	797.0
12.5°	776.4	778.9	784.1	789.2	790.5
15°	763.5	766.1	773.8	780.2	781.5
17.5°	748.0	753.2	762.2	768.6	771.2
20°	733.9	737.7	748.0	757.0	760.9
22.5°	713.3	719.7	732.6	744.2	749.3
25°	694.0	700.4	715.8	731.3	737.7
27.5°	672.1	679.8	697.8	719.7	726.1
30°	648.9	656.6	679.8	704.3	712.0
32.5°	623.1	632.2	660.5	688.8	701.7
35°	597.4	607.7	639.9	675.9	694.0
37.5°	567.8	581.9	616.7	664.3	686.2
40°	538.2	553.6	594.8	652.8	673.4
42.5°	508.6	525.3	574.2	634.7	656.6
45°	477.7	497.0	552.3	615.4	637.3
47.5°	446.8	467.4	529.2	593.5	618.0
50°	414.6	437.7	504.7	567.8	592.2
52.5°	385.0	406.8	473.8	539.5	563.9
55°	348.9	379.8	445.5	509.8	534.3
57.5°	320.6	343.8	413.3	476.4	499.5
60°	285.8	311.6	379.8	441.6	467.4
62.5°	252.3	282.0	346.3	406.8	433.9
65°	220.2	251.1	310.3	372.1	401.7
67.5°	191.8	218.9	276.8	339.9	370.8
70°	159.6	185.4	242.0	306.4	338.6
72.5°	131.3	157.1	209.9	272.9	300.0
75°	104.3	127.5	177.7	235.6	262.6
77.5°	78.5	100.4	142.9	193.1	215.0
80°	55.4	74.7	109.4	139.0	146.8
82.5°	37.3	51.5	69.5	83.7	82.4
85°	20.6	28.3	36.0	42.5	39.9
87.5°	7.7	9.0	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)