

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: P220120

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220120  
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-2L40-LD5-UNV-22  
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2612.9 lumens  
Efficiency: N/A  
Efficacy: 125.6 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

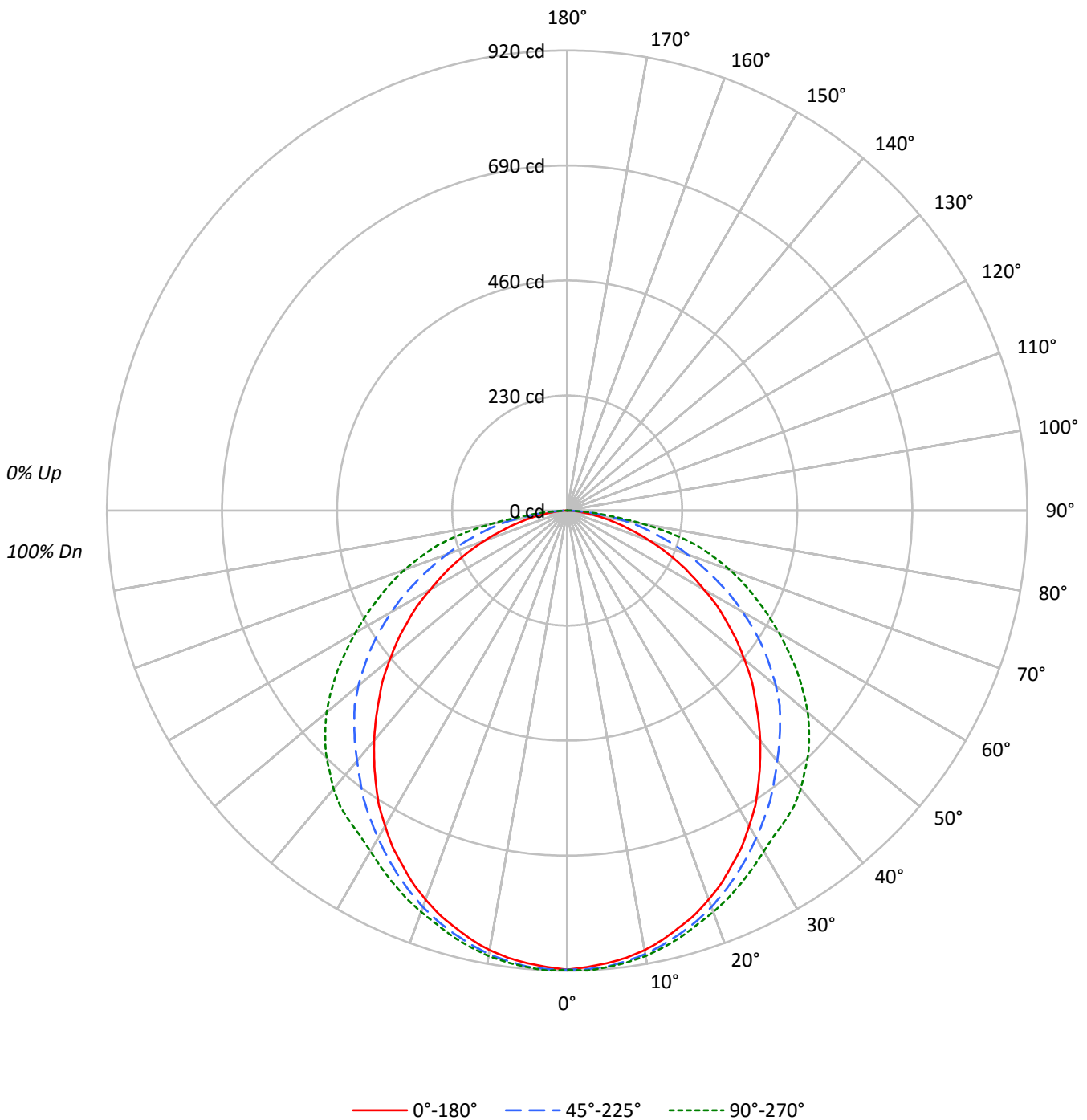
Input Watts (W): 20.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2470	2470	2470
5°	2454	2472	2476
10°	2439	2461	2472
15°	2405	2439	2457
20°	2370	2415	2446
25°	2319	2382	2441
30°	2262	2348	2443
35°	2190	2326	2491
40°	2109	2296	2552
45°	2022	2290	2598
50°	1935	2280	2630
55°	1832	2244	2636
60°	1701	2180	2631
65°	1564	2097	2656
70°	1379	2017	2717
75°	1146	1919	2790
80°	905	1791	2388
85°	614	1272	1599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	3.3
10°-20°	246.6	9.4
20°-30°	369.7	14.2
30°-40°	444.2	17.0
40°-50°	466.3	17.8
50°-60°	425.4	16.3
60°-70°	327.7	12.5
70°-80°	197.2	7.5
80°-90°	48.9	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°	703.1	26.9
0°-40°	1147.3	43.9
0°-60°	2039.1	78.0
0°-90°	2612.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	908	911	915	916	916	86
15°	863	867	875	881	882	244
25°	781	788	802	817	822	360
35°	667	677	708	741	758	417
45°	531	549	602	659	683	411
55°	390	416	478	538	562	349
65°	246	272	329	390	417	243
75°	110	137	185	242	268	119
85°	20	29	41	48	52	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	917.8	917.8	917.8	917.8	917.8
2.5°	913.8	915.1	917.8	920.5	920.5
5°	908.5	911.2	915.1	916.5	916.5
7.5°	901.9	904.5	908.5	911.2	911.2
10°	892.6	893.9	900.5	903.2	904.5
12.5°	879.3	883.3	888.6	893.9	893.9
15°	863.3	867.3	875.3	880.6	881.9
17.5°	847.4	851.4	860.7	867.3	867.3
20°	827.5	832.8	843.4	851.4	854.0
22.5°	806.2	811.5	823.5	834.1	839.4
25°	781.0	787.6	802.2	816.9	822.2
27.5°	757.1	762.4	779.7	799.6	804.9
30°	727.9	735.8	755.8	778.3	786.3
32.5°	700.0	707.9	731.8	758.4	770.4
35°	666.8	677.4	707.9	741.1	758.4
37.5°	633.6	645.5	680.0	723.9	745.1
40°	600.4	613.6	653.5	707.9	726.5
42.5°	565.8	581.8	628.2	685.4	704.0
45°	531.3	548.6	601.7	658.8	682.7
47.5°	499.4	516.7	576.4	633.6	656.1
50°	462.2	483.5	544.6	605.7	628.2
52.5°	427.7	447.6	511.4	572.5	595.0
55°	390.5	415.7	478.2	537.9	561.8
57.5°	356.0	378.5	442.3	500.7	524.6
60°	316.1	342.7	405.1	463.5	488.8
62.5°	280.3	306.8	369.2	426.4	452.9
65°	245.7	272.3	329.4	390.5	417.1
67.5°	209.9	237.8	292.2	354.6	382.5
70°	175.3	200.6	256.3	317.4	345.3
72.5°	140.8	167.4	220.5	280.3	306.8
75°	110.2	136.8	184.6	241.7	268.3
77.5°	83.7	104.9	151.4	199.2	215.2
80°	58.4	78.4	115.6	147.4	154.1
82.5°	37.2	53.1	75.7	93.0	91.6
85°	19.9	29.2	41.2	47.8	51.8
87.5°	9.3	10.6	13.3	17.3	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)