

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: P219997

Luminaire Tested: **R3-WN-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35872)  
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-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3061.2 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

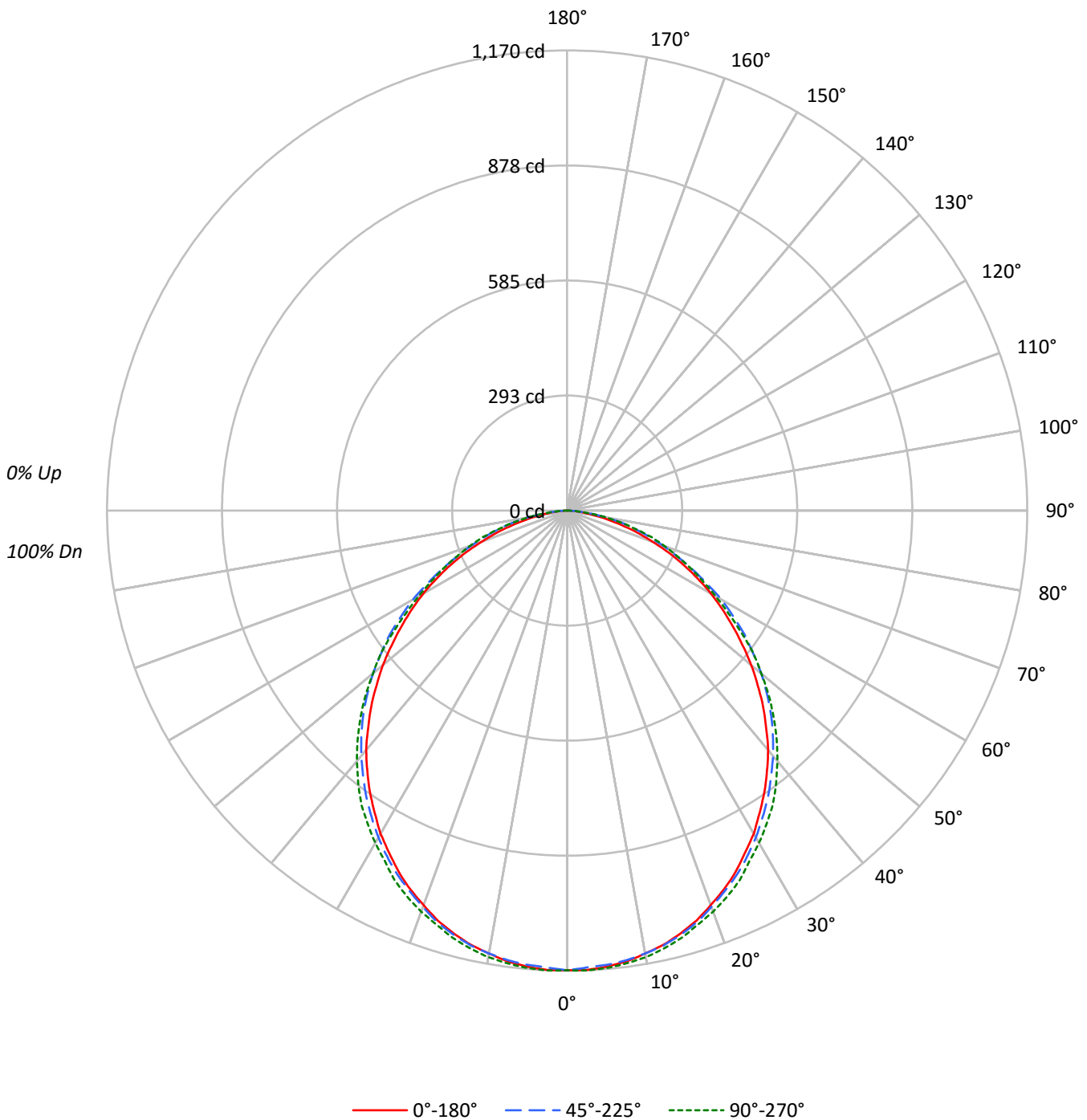
Input Watts (W): 23.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

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

	0°	45°	90°
0°	3145	3145	3145
5°	3145	3132	3153
10°	3125	3125	3151
15°	3102	3111	3133
20°	3057	3071	3107
25°	3010	3033	3080
30°	2948	2982	3032
35°	2872	2924	2997
40°	2793	2860	2921
45°	2682	2791	2827
50°	2560	2699	2699
55°	2415	2586	2534
60°	2276	2438	2344
65°	2078	2219	2199
70°	1807	2031	2068
75°	1498	1844	1861
80°	1105	1547	1547
85°	735	1124	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.6	3.6
10°-20°	315.3	10.3
20°-30°	471.6	15.4
30°-40°	557.4	18.2
40°-50°	561.3	18.3
50°-60°	481.2	15.7
60°-70°	341.2	11.1
70°-80°	182.0	5.9
80°-90°	40.7	1.3
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°	897.4	29.3
0°-40°	1454.8	47.5
0°-60°	2497.3	81.6
0°-90°	3061.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3061.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1164	1164	1159	1166	1167	110
15°	1114	1115	1117	1123	1125	314
25°	1014	1018	1022	1034	1037	466
35°	874	876	890	906	912	546
45°	705	713	733	744	743	543
55°	515	529	551	548	540	461
65°	326	342	348	347	345	323
75°	144	163	177	184	179	156
85°	24	32	36	35	32	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1168.9	1168.9	1168.9	1168.9	1168.9
2.5°	1168.9	1167.3	1162.6	1170.5	1170.5
5°	1164.2	1164.2	1159.4	1165.7	1167.3
7.5°	1156.2	1156.2	1153.1	1161.0	1161.0
10°	1143.6	1145.1	1143.6	1151.5	1153.1
12.5°	1130.9	1132.5	1132.5	1138.8	1140.4
15°	1113.5	1115.1	1116.6	1123.0	1124.6
17.5°	1092.9	1096.0	1097.6	1104.0	1104.0
20°	1067.5	1072.3	1072.3	1083.4	1085.0
22.5°	1042.2	1045.4	1046.9	1059.6	1062.8
25°	1013.7	1018.4	1021.6	1034.3	1037.4
27.5°	980.4	985.2	991.5	1005.8	1004.2
30°	948.7	950.3	959.8	974.1	975.7
32.5°	910.7	915.5	925.0	940.8	944.0
35°	874.3	875.9	890.1	906.0	912.3
37.5°	834.7	839.5	852.1	869.6	872.7
40°	795.1	798.3	814.1	833.1	831.5
42.5°	749.2	755.5	774.5	788.8	788.8
45°	704.8	712.7	733.3	744.4	742.8
47.5°	657.3	668.4	689.0	698.5	695.3
50°	611.4	622.5	644.6	649.4	644.6
52.5°	562.3	576.5	595.5	597.1	597.1
55°	514.8	529.0	551.2	548.0	540.1
57.5°	468.8	483.1	500.5	494.2	486.3
60°	422.9	435.6	453.0	440.3	435.6
62.5°	373.8	391.2	399.1	392.8	389.6
65°	326.3	342.1	348.5	346.9	345.3
67.5°	278.8	297.8	300.9	302.5	302.5
70°	229.7	251.8	258.2	262.9	262.9
72.5°	188.5	207.5	215.4	223.3	224.9
75°	144.1	163.1	177.4	183.7	179.0
77.5°	107.7	122.0	141.0	139.4	139.4
80°	71.3	87.1	99.8	103.0	99.8
82.5°	44.3	58.6	64.9	64.9	63.4
85°	23.8	31.7	36.4	34.8	31.7
87.5°	9.5	11.1	11.1	7.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)