

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: P219987

Luminaire Tested: **R3-WN-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219987  
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-2L30-LD5-UNV-14  
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

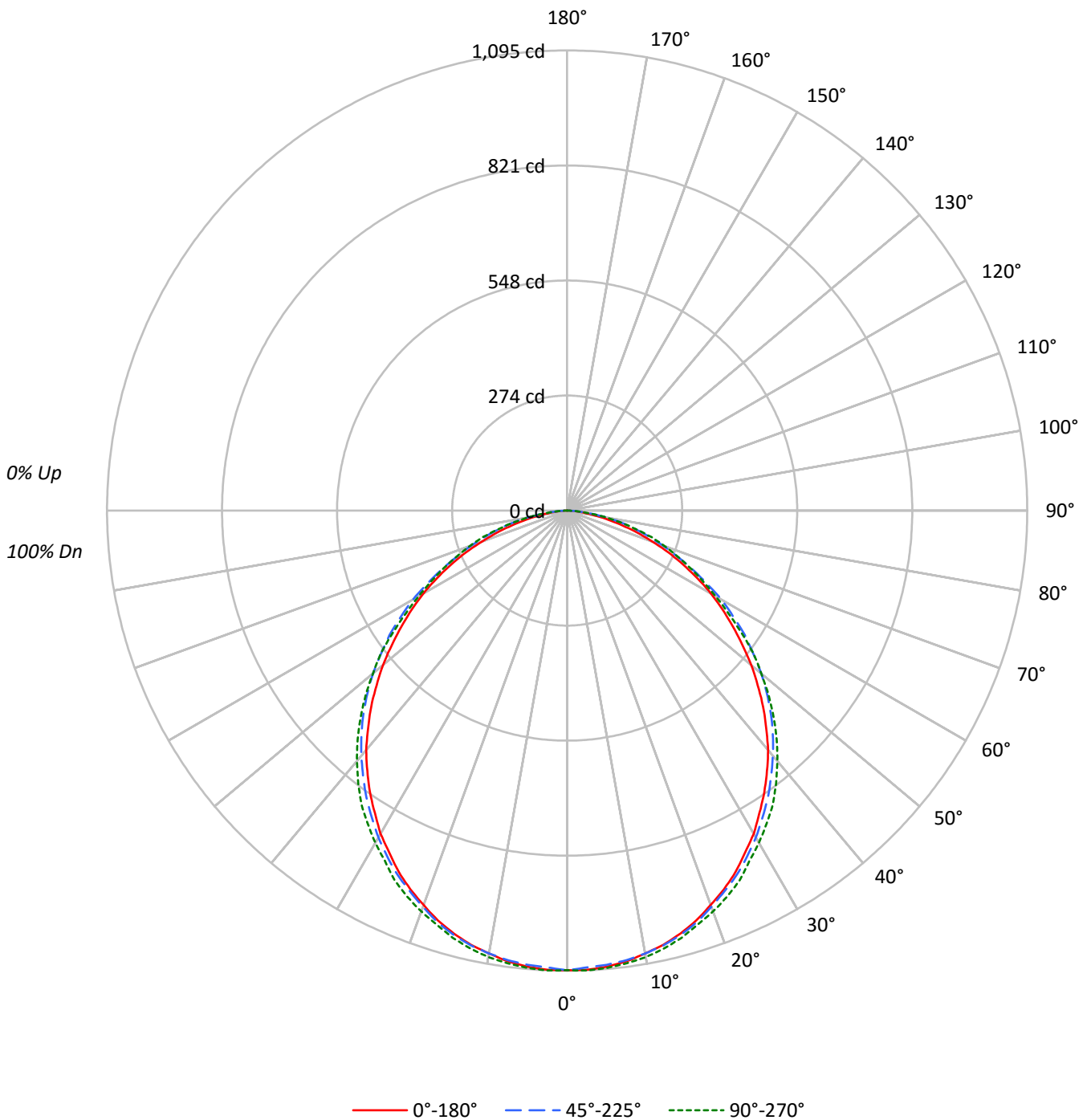
Lumens per Lamp: N/A  
Luminaire Lumens: 2864.5 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

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									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						100													
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71						71													
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60						60													
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	64	58	54	52						52													
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45						45													
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40						40													
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35						35													
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31						31													
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28						28													
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26						26													

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

	0°	45°	90°
0°	2943	2943	2943
5°	2943	2931	2951
10°	2924	2924	2948
15°	2903	2911	2932
20°	2861	2873	2907
25°	2817	2839	2882
30°	2759	2791	2837
35°	2688	2736	2804
40°	2614	2676	2733
45°	2510	2611	2645
50°	2395	2525	2525
55°	2260	2420	2371
60°	2130	2281	2194
65°	1944	2076	2057
70°	1691	1901	1936
75°	1403	1726	1742
80°	1034	1447	1447
85°	685	1053	914



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	3.6
10°-20°	295.0	10.3
20°-30°	441.3	15.4
30°-40°	521.5	18.2
40°-50°	525.3	18.3
50°-60°	450.2	15.7
60°-70°	319.3	11.1
70°-80°	170.3	5.9
80°-90°	38.1	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°	839.8	29.3
0°-40°	1361.3	47.5
0°-60°	2336.8	81.6
0°-90°	2864.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1089	1089	1085	1091	1092	103
15°	1042	1043	1045	1051	1052	294
25°	949	953	956	968	971	436
35°	818	820	833	848	854	511
45°	660	667	686	697	695	508
55°	482	495	516	513	505	431
65°	305	320	326	325	323	302
75°	135	153	166	172	168	146
85°	22	30	34	33	30	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1093.8	1093.8	1093.8	1093.8	1093.8
2.5°	1093.8	1092.3	1087.9	1095.3	1095.3
5°	1089.4	1089.4	1084.9	1090.8	1092.3
7.5°	1081.9	1081.9	1079.0	1086.4	1086.4
10°	1070.1	1071.6	1070.1	1077.5	1079.0
12.5°	1058.2	1059.7	1059.7	1065.6	1067.1
15°	1041.9	1043.4	1044.9	1050.8	1052.3
17.5°	1022.7	1025.6	1027.1	1033.0	1033.0
20°	998.9	1003.4	1003.4	1013.8	1015.2
22.5°	975.2	978.2	979.7	991.5	994.5
25°	948.6	953.0	956.0	967.8	970.8
27.5°	917.4	921.9	927.8	941.1	939.7
30°	887.8	889.3	898.2	911.5	913.0
32.5°	852.2	856.7	865.6	880.4	883.3
35°	818.1	819.6	832.9	847.8	853.7
37.5°	781.1	785.5	797.4	813.7	816.6
40°	744.0	747.0	761.8	779.6	778.1
42.5°	701.0	707.0	724.8	738.1	738.1
45°	659.5	666.9	686.2	696.6	695.1
47.5°	615.1	625.5	644.7	653.6	650.6
50°	572.1	582.5	603.2	607.7	603.2
52.5°	526.1	539.5	557.3	558.8	558.8
55°	481.7	495.0	515.8	512.8	505.4
57.5°	438.7	452.0	468.3	462.4	455.0
60°	395.7	407.6	423.9	412.0	407.6
62.5°	349.8	366.1	373.5	367.6	364.6
65°	305.3	320.1	326.1	324.6	323.1
67.5°	260.9	278.6	281.6	283.1	283.1
70°	214.9	235.7	241.6	246.0	246.0
72.5°	176.4	194.2	201.6	209.0	210.5
75°	134.9	152.7	166.0	171.9	167.5
77.5°	100.8	114.1	131.9	130.4	130.4
80°	66.7	81.5	93.4	96.3	93.4
82.5°	41.5	54.8	60.8	60.8	59.3
85°	22.2	29.6	34.1	32.6	29.6
87.5°	8.9	10.4	10.4	7.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)