

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: P220093

Luminaire Tested: **R3-WD-4L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35855)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-4L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3172.7 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.43
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

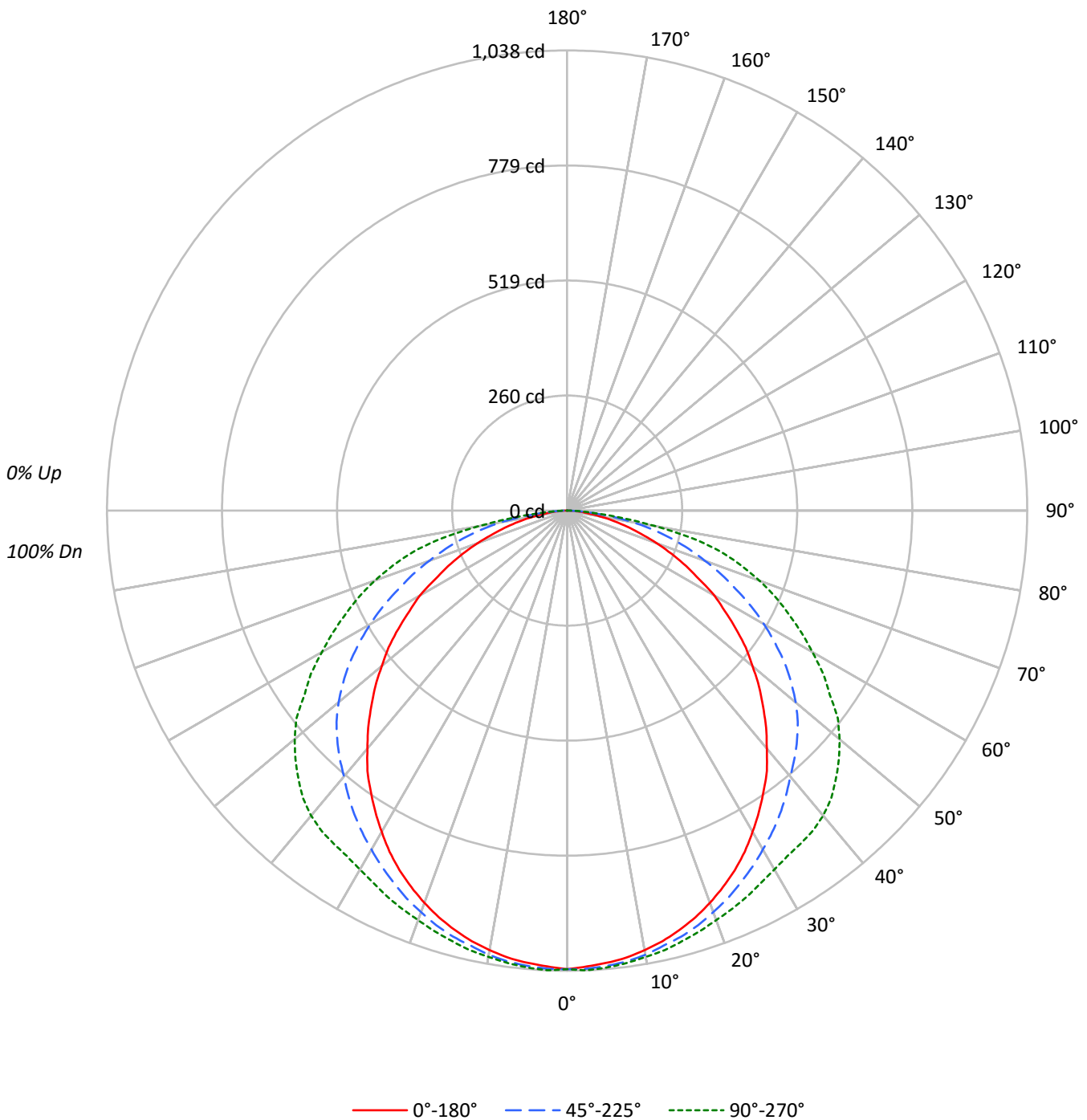
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2784	2784	2784
5°	2767	2785	2794
10°	2752	2780	2794
15°	2729	2772	2800
20°	2696	2760	2815
25°	2658	2750	2852
30°	2600	2744	2904
35°	2539	2748	3014
40°	2461	2751	3156
45°	2378	2791	3262
50°	2285	2817	3358
55°	2181	2810	3392
60°	2066	2761	3437
65°	1885	2674	3507
70°	1693	2600	3629
75°	1449	2523	3741
80°	1173	2348	3121
85°	849	1488	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.1
10°-20°	280.5	8.8
20°-30°	427.6	13.5
30°-40°	526.6	16.6
40°-50°	569.1	17.9
50°-60°	532.5	16.8
60°-70°	418.7	13.2
70°-80°	258.2	8.1
80°-90°	61.6	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°	806.0	25.4
0°-40°	1332.6	42.0
0°-60°	2434.2	76.7
0°-90°	3172.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3172.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1024	1028	1031	1033	1034	97
15°	979	985	995	1004	1005	276
25°	895	904	926	952	960	412
35°	773	788	837	892	918	483
45°	625	654	733	824	857	482
55°	465	506	599	690	723	416
65°	296	336	420	510	551	293
75°	139	176	243	322	360	149
85°	28	38	48	60	58	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1034.5	1034.5	1034.5	1034.5	1034.5
2.5°	1029.3	1031.1	1034.5	1036.2	1037.9
5°	1024.2	1027.6	1031.1	1032.8	1034.5
7.5°	1017.3	1020.7	1025.9	1029.3	1029.3
10°	1007.0	1010.4	1017.3	1022.5	1022.5
12.5°	994.9	998.4	1005.2	1013.9	1015.6
15°	979.4	984.6	994.9	1003.5	1005.2
17.5°	962.2	967.4	981.1	991.5	994.9
20°	941.6	948.4	963.9	979.4	982.9
22.5°	919.2	927.8	946.7	965.7	972.5
25°	895.1	903.7	926.1	951.9	960.5
27.5°	867.5	876.1	905.4	936.4	946.7
30°	836.6	850.3	883.0	919.2	934.7
32.5°	805.6	819.3	860.7	905.4	924.3
35°	772.9	788.4	836.6	891.6	917.5
37.5°	740.2	757.4	810.7	879.6	910.6
40°	700.6	722.9	783.2	867.5	898.5
42.5°	664.4	688.5	759.1	848.6	881.3
45°	624.8	654.1	733.3	824.5	857.2
47.5°	587.0	616.2	705.7	797.0	831.4
50°	545.7	580.1	673.0	766.0	802.1
52.5°	507.8	542.2	636.9	729.8	769.4
55°	464.8	506.1	599.0	690.2	722.9
57.5°	421.7	459.6	556.0	647.2	685.1
60°	383.9	418.3	513.0	602.5	638.6
62.5°	335.7	377.0	468.2	556.0	595.6
65°	296.1	335.7	420.0	509.5	550.8
67.5°	254.8	296.1	377.0	464.8	507.8
70°	215.2	253.0	330.5	418.3	461.3
72.5°	173.9	211.7	287.5	371.8	411.4
75°	139.4	175.6	242.7	321.9	359.8
77.5°	106.7	137.7	198.0	266.8	290.9
80°	75.7	101.6	151.5	189.3	201.4
82.5°	48.2	68.9	94.7	117.0	117.0
85°	27.5	37.9	48.2	60.2	58.5
87.5°	12.0	13.8	15.5	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)