

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: P220110

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220110
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-4L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3386.2 lumens
Efficiency: N/A
Efficacy: 111.0 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

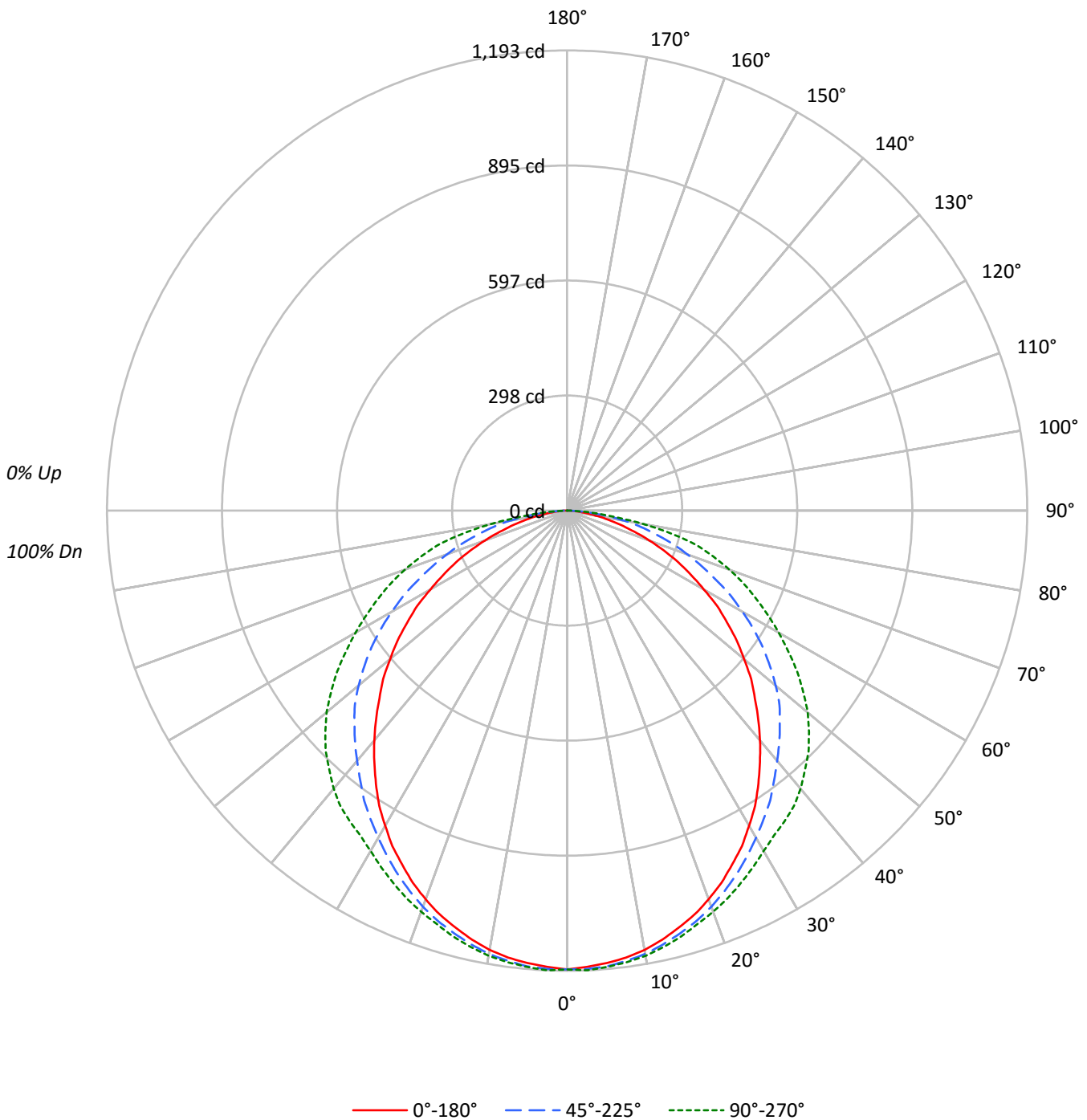
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220110

CATALOG NUMBER: R3-WN-4L30-LD5-UNV-22

Luminous Intensity Polar Plot





TEST NUMBER: P220110

CATALOG NUMBER: R3-WN-4L30-LD5-UNV-22

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°	3201	3201	3201
5°	3180	3204	3208
10°	3161	3189	3203
15°	3117	3160	3184
20°	3071	3130	3170
25°	3005	3087	3164
30°	2931	3043	3166
35°	2839	3014	3229
40°	2733	2975	3308
45°	2620	2968	3367
50°	2508	2954	3409
55°	2374	2907	3416
60°	2205	2826	3409
65°	2027	2718	3442
70°	1788	2614	3521
75°	1486	2488	3615
80°	1173	2321	3095
85°	797	1649	2072



TEST NUMBER: P220110

CATALOG NUMBER: R3-WN-4L30-LD5-UNV-22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.3
10°-20°	319.6	9.4
20°-30°	479.2	14.2
30°-40°	575.7	17.0
40°-50°	604.4	17.8
50°-60°	551.4	16.3
60°-70°	424.7	12.5
70°-80°	255.5	7.5
80°-90°	63.4	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°	911.2	26.9
0°-40°	1486.9	43.9
0°-60°	2642.6	78.0
0°-90°	3386.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3386.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1177	1181	1186	1188	1188	112
15°	1119	1124	1134	1141	1143	316
25°	1012	1021	1040	1059	1066	466
35°	864	878	918	960	983	540
45°	688	711	780	854	885	532
55°	506	539	620	697	728	453
65°	318	353	427	506	540	315
75°	143	177	239	313	348	154
85°	26	38	53	62	67	34
90°	0	0	0	0	0	



TEST NUMBER: P220110

CATALOG NUMBER: R3-WN-4L30-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1184.3	1186.0	1189.4	1192.9	1192.9
5°	1177.4	1180.8	1186.0	1187.7	1187.7
7.5°	1168.8	1172.2	1177.4	1180.8	1180.8
10°	1156.7	1158.4	1167.0	1170.5	1172.2
12.5°	1139.5	1144.7	1151.6	1158.4	1158.4
15°	1118.9	1124.0	1134.3	1141.2	1142.9
17.5°	1098.2	1103.4	1115.4	1124.0	1124.0
20°	1072.4	1079.3	1093.0	1103.4	1106.8
22.5°	1044.8	1051.7	1067.2	1081.0	1087.9
25°	1012.1	1020.7	1039.7	1058.6	1065.5
27.5°	981.1	988.0	1010.4	1036.2	1043.1
30°	943.3	953.6	979.4	1008.7	1019.0
32.5°	907.1	917.5	948.4	982.9	998.4
35°	864.1	877.9	917.5	960.5	982.9
37.5°	821.1	836.6	881.3	938.1	965.7
40°	778.0	795.2	846.9	917.5	941.6
42.5°	733.3	753.9	814.2	888.2	912.3
45°	688.5	710.9	779.8	853.8	884.8
47.5°	647.2	669.6	747.0	821.1	850.3
50°	599.0	626.6	705.7	784.9	814.2
52.5°	554.3	580.1	662.7	741.9	771.1
55°	506.1	538.8	619.7	697.1	728.1
57.5°	461.3	490.6	573.2	648.9	679.9
60°	409.7	444.1	525.0	600.7	633.4
62.5°	363.2	397.6	478.5	552.5	587.0
65°	318.4	352.9	426.9	506.1	540.5
67.5°	272.0	308.1	378.7	459.6	495.7
70°	227.2	259.9	332.2	411.4	447.5
72.5°	182.5	216.9	285.7	363.2	397.6
75°	142.9	177.3	239.3	313.3	347.7
77.5°	108.4	136.0	196.2	258.2	278.9
80°	75.7	101.6	149.8	191.1	199.7
82.5°	48.2	68.9	98.1	120.5	118.8
85°	25.8	37.9	53.4	62.0	67.1
87.5°	12.0	13.8	17.2	22.4	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)