

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: P220058

Luminaire Tested: **R3-WL-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35853)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-3L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2958.5 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

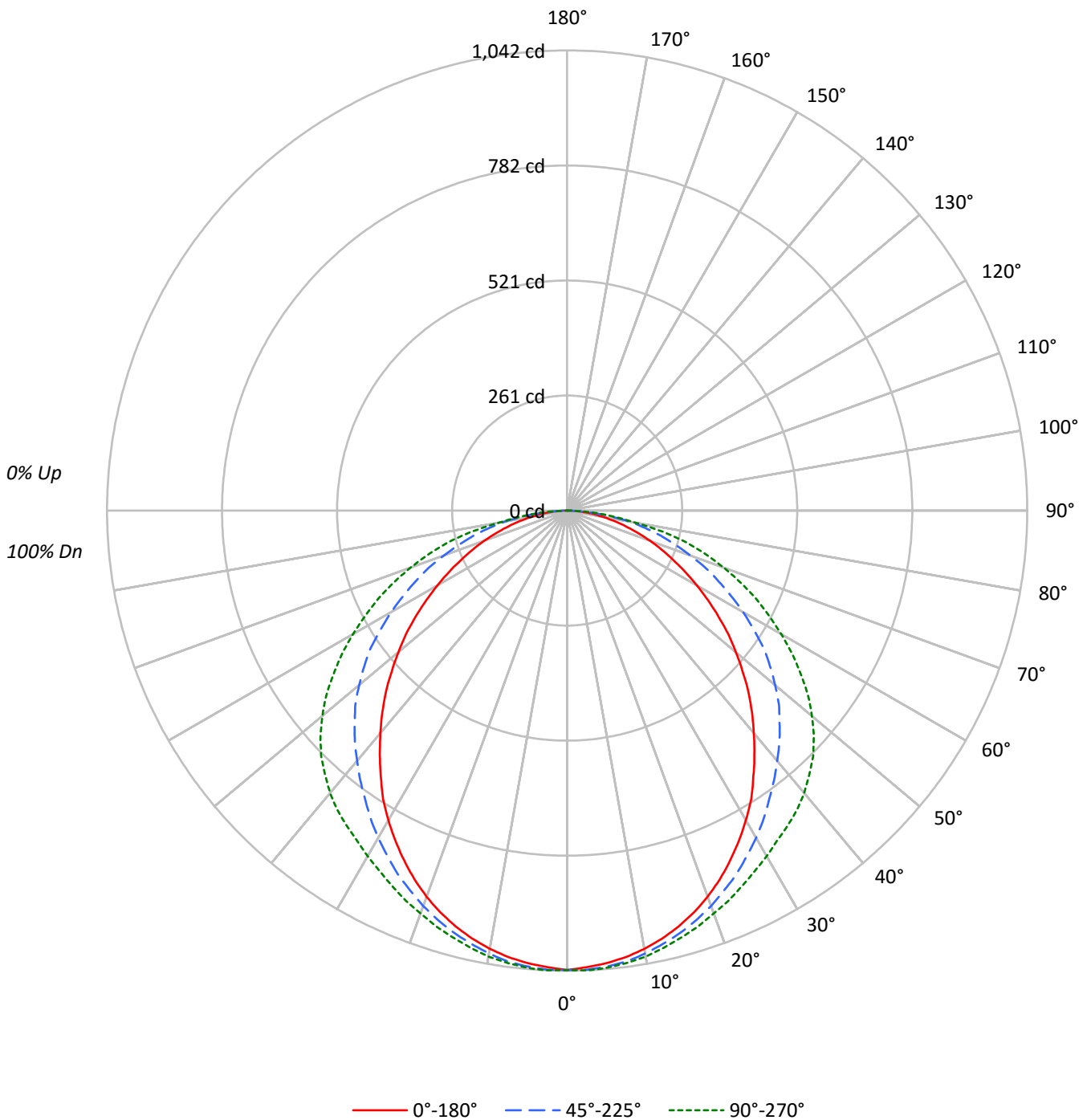
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220058

CATALOG NUMBER: R3-WL-3L30-LD5-UNV-22

Luminous Intensity Polar Plot





TEST NUMBER: P220058

CATALOG NUMBER: R3-WL-3L30-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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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	33	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°	2800	2800	2800
5°	2779	2799	2807
10°	2754	2782	2803
15°	2716	2758	2787
20°	2664	2728	2779
25°	2594	2696	2784
30°	2516	2660	2808
35°	2416	2621	2861
40°	2311	2599	2934
45°	2210	2589	2997
50°	2088	2574	3029
55°	1962	2549	3031
60°	1827	2476	3012
65°	1687	2408	3005
70°	1570	2330	2963
75°	1424	2275	2910
80°	1269	2191	2422
85°	1149	1748	2115



TEST NUMBER: P220058

CATALOG NUMBER: R3-WL-3L30-LD5-UNV-22

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.3
10°-20°	279.0	9.4
20°-30°	417.9	14.1
30°-40°	501.7	17.0
40°-50°	525.7	17.8
50°-60°	478.9	16.2
60°-70°	369.7	12.5
70°-80°	224.4	7.6
80°-90°	63.0	2.1
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°	795.2	26.9
0°-40°	1296.8	43.8
0°-60°	2301.4	77.8
0°-90°	2958.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1029	1032	1036	1039	1039	98
15°	975	981	990	999	1000	275
25°	874	884	908	929	938	402
35°	735	753	798	850	871	460
45°	581	606	680	758	788	447
55°	418	452	543	618	646	374
65°	265	302	378	445	472	264
75°	137	164	219	265	280	146
85°	37	45	57	66	68	42
90°	0	0	0	0	0	



TEST NUMBER: P220058

CATALOG NUMBER: R3-WL-3L30-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.5	1040.5	1040.5	1040.5	1040.5
2.5°	1034.6	1036.1	1040.5	1042.0	1042.0
5°	1028.6	1031.6	1036.1	1039.1	1039.1
7.5°	1019.7	1022.7	1030.1	1033.1	1033.1
10°	1007.8	1012.3	1018.2	1024.2	1025.7
12.5°	992.9	997.4	1004.8	1012.3	1013.7
15°	975.0	981.0	989.9	998.9	1000.4
17.5°	954.2	960.2	972.1	984.0	987.0
20°	930.4	936.3	952.7	967.6	970.6
22.5°	903.6	912.5	930.4	949.7	955.7
25°	873.8	884.2	908.1	928.9	937.8
27.5°	842.6	854.5	881.3	909.5	920.0
30°	809.8	821.7	856.0	888.7	903.6
32.5°	775.6	787.5	827.7	869.4	885.7
35°	735.4	753.2	797.9	850.0	870.8
37.5°	696.7	717.5	769.6	830.6	854.5
40°	658.0	680.3	739.8	808.3	835.1
42.5°	619.3	643.1	711.6	786.0	811.3
45°	580.6	605.9	680.3	757.7	787.5
47.5°	538.9	567.2	650.5	726.4	757.7
50°	498.7	529.9	614.8	695.2	723.5
52.5°	460.0	489.8	579.1	659.5	687.7
55°	418.3	452.5	543.3	617.8	646.1
57.5°	378.1	413.8	500.2	577.6	604.4
60°	339.4	373.6	460.0	534.4	559.7
62.5°	302.2	337.9	418.3	489.8	515.1
65°	265.0	302.2	378.1	445.1	471.9
67.5°	232.2	265.0	339.4	401.9	424.3
70°	199.5	227.8	296.2	355.8	376.6
72.5°	166.7	195.0	256.0	309.6	329.0
75°	137.0	163.7	218.8	265.0	279.9
77.5°	108.7	132.5	180.1	217.3	221.8
80°	81.9	101.2	141.4	157.8	156.3
82.5°	59.5	72.9	95.3	107.2	107.2
85°	37.2	44.7	56.6	65.5	68.5
87.5°	16.4	19.4	23.8	25.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)