

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: P220059

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220059
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-4L30-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: 3420.9 lumens
Efficiency: N/A
Efficacy: 112.2 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

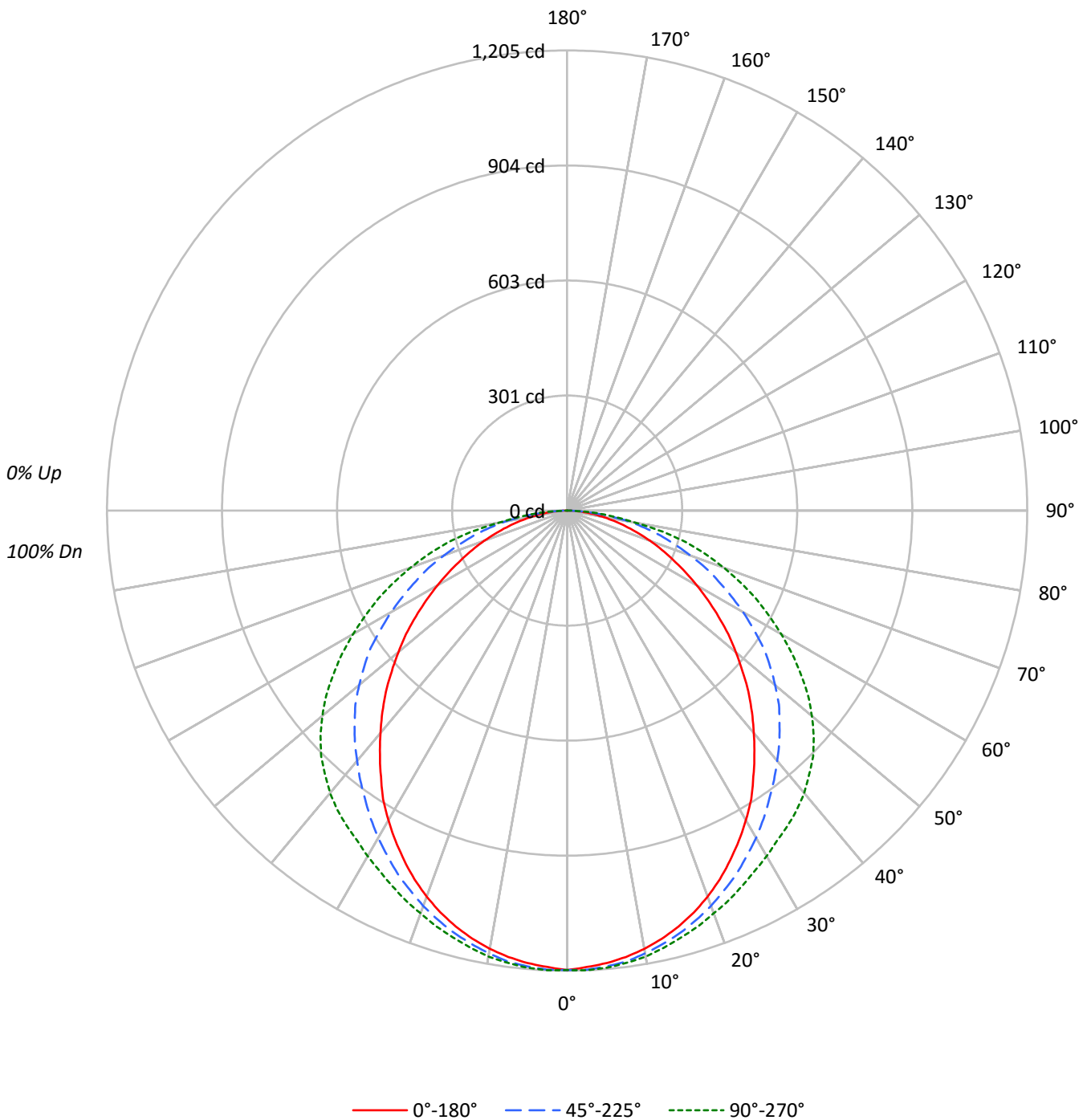
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3238	3238	3238
5°	3213	3236	3246
10°	3184	3217	3241
15°	3141	3189	3222
20°	3081	3155	3214
25°	3000	3118	3220
30°	2910	3075	3246
35°	2793	3031	3308
40°	2673	3005	3392
45°	2555	2993	3465
50°	2414	2976	3502
55°	2269	2948	3505
60°	2112	2863	3483
65°	1951	2784	3475
70°	1815	2695	3426
75°	1647	2630	3365
80°	1468	2534	2800
85°	1328	2019	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.3
10°-20°	322.6	9.4
20°-30°	483.2	14.1
30°-40°	580.1	17.0
40°-50°	607.8	17.8
50°-60°	553.8	16.2
60°-70°	427.5	12.5
70°-80°	259.5	7.6
80°-90°	72.8	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°	919.4	26.9
0°-40°	1499.5	43.8
0°-60°	2661.1	77.8
0°-90°	3420.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1189	1193	1198	1202	1202	113
15°	1128	1134	1145	1155	1157	318
25°	1010	1022	1050	1074	1084	465
35°	850	871	923	983	1007	532
45°	671	701	787	876	911	517
55°	484	523	628	714	747	433
65°	306	349	437	515	546	306
75°	158	189	253	306	324	169
85°	43	52	65	76	79	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.2	1203.2	1203.2	1203.2	1203.2
2.5°	1196.3	1198.0	1203.2	1204.9	1204.9
5°	1189.4	1192.9	1198.0	1201.5	1201.5
7.5°	1179.1	1182.5	1191.1	1194.6	1194.6
10°	1165.3	1170.5	1177.4	1184.3	1186.0
12.5°	1148.1	1153.3	1161.9	1170.5	1172.2
15°	1127.5	1134.3	1144.7	1155.0	1156.7
17.5°	1103.4	1110.2	1124.0	1137.8	1141.2
20°	1075.8	1082.7	1101.6	1118.8	1122.3
22.5°	1044.8	1055.2	1075.8	1098.2	1105.1
25°	1010.4	1022.5	1050.0	1074.1	1084.4
27.5°	974.3	988.0	1019.0	1051.7	1063.8
30°	936.4	950.2	989.7	1027.6	1044.8
32.5°	896.8	910.6	957.0	1005.2	1024.2
35°	850.3	871.0	922.6	982.9	1007.0
37.5°	805.6	829.7	889.9	960.5	988.0
40°	760.8	786.6	855.5	934.7	965.7
42.5°	716.1	743.6	822.8	908.8	938.1
45°	671.3	700.6	786.6	876.1	910.6
47.5°	623.1	655.8	752.2	840.0	876.1
50°	576.6	612.8	710.9	803.8	836.6
52.5°	531.9	566.3	669.6	762.5	795.2
55°	483.7	523.3	628.3	714.3	747.0
57.5°	437.2	478.5	578.4	667.9	698.8
60°	392.5	432.0	531.9	617.9	647.2
62.5°	349.4	390.7	483.7	566.3	595.6
65°	306.4	349.4	437.2	514.7	545.7
67.5°	268.5	306.4	392.5	464.8	490.6
70°	230.7	263.4	342.5	411.4	435.5
72.5°	192.8	225.5	296.1	358.0	380.4
75°	158.4	189.3	253.0	306.4	323.6
77.5°	125.7	153.2	208.3	251.3	256.5
80°	94.7	117.0	163.5	182.5	180.7
82.5°	68.9	84.3	110.2	123.9	123.9
85°	43.0	51.6	65.4	75.7	79.2
87.5°	18.9	22.4	27.5	29.3	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)