

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: P220116

Luminaire Tested: **R3-WN-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220116
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-4L35-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3507.8 lumens
Efficiency: N/A
Efficacy: 115.0 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

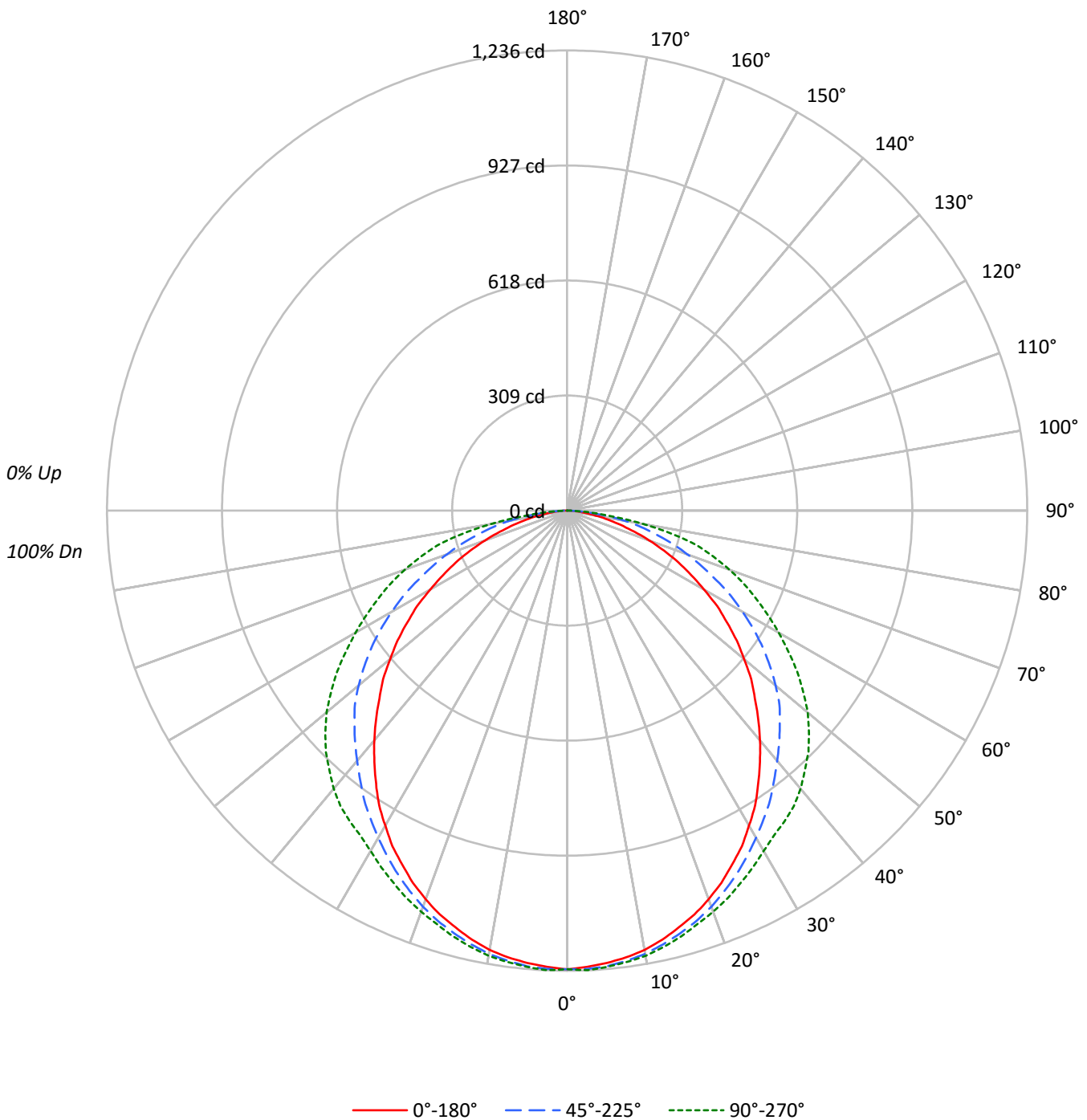
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3316	3316	3316
5°	3294	3319	3323
10°	3274	3303	3318
15°	3229	3274	3299
20°	3181	3243	3283
25°	3113	3198	3277
30°	3036	3153	3280
35°	2940	3122	3345
40°	2831	3082	3426
45°	2714	3074	3488
50°	2598	3061	3531
55°	2459	3012	3539
60°	2284	2927	3532
65°	2101	2816	3565
70°	1852	2707	3648
75°	1539	2577	3745
80°	1216	2404	3205
85°	824	1707	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.3
10°-20°	331.1	9.4
20°-30°	496.4	14.2
30°-40°	596.3	17.0
40°-50°	626.0	17.8
50°-60°	571.2	16.3
60°-70°	440.0	12.5
70°-80°	264.7	7.5
80°-90°	65.6	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°	943.9	26.9
0°-40°	1540.3	43.9
0°-60°	2737.5	78.0
0°-90°	3507.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3507.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1220	1223	1229	1230	1230	116
15°	1159	1164	1175	1182	1184	327
25°	1048	1057	1077	1097	1104	483
35°	895	909	950	995	1018	560
45°	713	736	808	884	916	551
55°	524	558	642	722	754	469
65°	330	366	442	524	560	326
75°	148	184	248	324	360	160
85°	27	39	55	64	70	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.1	1232.1	1232.1	1232.1	1232.1
2.5°	1226.8	1228.6	1232.1	1235.7	1235.7
5°	1219.6	1223.2	1228.6	1230.3	1230.3
7.5°	1210.7	1214.3	1219.6	1223.2	1223.2
10°	1198.2	1200.0	1208.9	1212.5	1214.3
12.5°	1180.4	1185.8	1192.9	1200.0	1200.0
15°	1159.0	1164.4	1175.1	1182.2	1184.0
17.5°	1137.6	1143.0	1155.5	1164.4	1164.4
20°	1110.9	1118.0	1132.3	1143.0	1146.5
22.5°	1082.3	1089.5	1105.5	1119.8	1126.9
25°	1048.5	1057.4	1077.0	1096.6	1103.7
27.5°	1016.4	1023.5	1046.7	1073.4	1080.6
30°	977.1	987.8	1014.6	1044.9	1055.6
32.5°	939.7	950.4	982.5	1018.2	1034.2
35°	895.1	909.4	950.4	995.0	1018.2
37.5°	850.5	866.6	913.0	971.8	1000.3
40°	806.0	823.8	877.3	950.4	975.4
42.5°	759.6	781.0	843.4	920.1	945.0
45°	713.2	736.4	807.7	884.4	916.5
47.5°	670.4	693.6	773.9	850.5	880.9
50°	620.5	649.1	731.1	813.1	843.4
52.5°	574.2	600.9	686.5	768.5	798.8
55°	524.2	558.1	641.9	722.2	754.3
57.5°	477.9	508.2	593.8	672.2	704.3
60°	424.4	460.0	543.8	622.3	656.2
62.5°	376.2	411.9	495.7	572.4	608.0
65°	329.9	365.5	442.2	524.2	559.9
67.5°	281.7	319.2	392.3	476.1	513.5
70°	235.4	269.2	344.1	426.2	463.6
72.5°	189.0	224.7	296.0	376.2	411.9
75°	148.0	183.7	247.9	324.5	360.2
77.5°	112.3	140.9	203.3	267.5	288.9
80°	78.5	105.2	155.1	197.9	206.8
82.5°	49.9	71.3	101.6	124.8	123.0
85°	26.7	39.2	55.3	64.2	69.5
87.5°	12.5	14.3	17.8	23.2	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)