

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: P220088

Luminaire Tested: **R3-WG-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35854)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-4L40-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3419.3 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

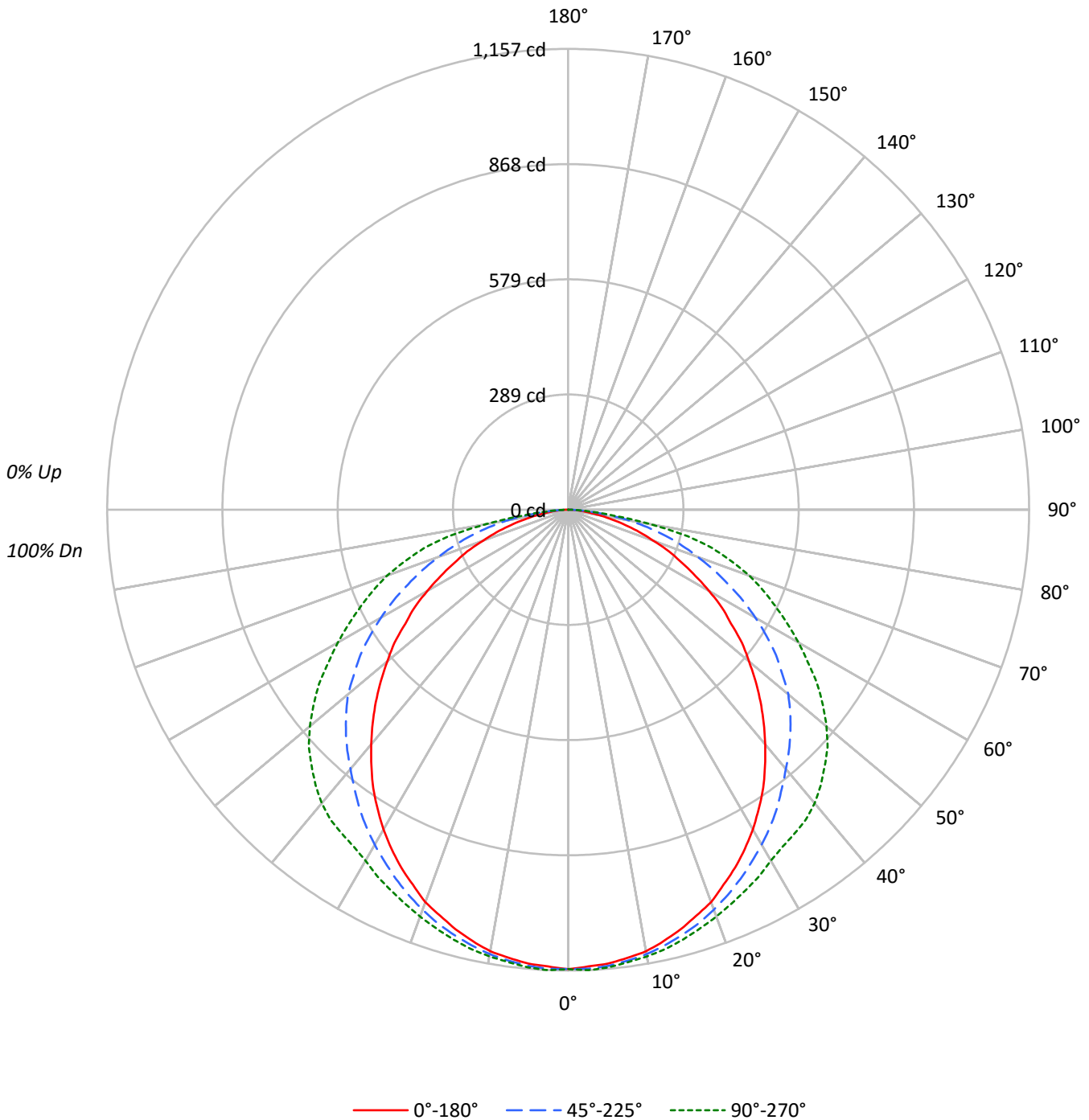
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3104	3104	3104
5°	3091	3106	3116
10°	3076	3096	3111
15°	3039	3080	3111
20°	3003	3061	3113
25°	2944	3037	3130
30°	2881	3018	3161
35°	2804	3003	3257
40°	2701	2986	3380
45°	2597	3003	3465
50°	2480	3019	3543
55°	2339	2986	3582
60°	2198	2921	3594
65°	2003	2823	3654
70°	1795	2721	3806
75°	1549	2640	3902
80°	1226	2424	3250
85°	908	1590	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.2
10°-20°	311.7	9.1
20°-30°	471.7	13.8
30°-40°	574.6	16.8
40°-50°	612.1	17.9
50°-60°	565.4	16.5
60°-70°	440.7	12.9
70°-80°	270.0	7.9
80°-90°	64.0	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°	892.6	26.1
0°-40°	1467.1	42.9
0°-60°	2644.6	77.3
0°-90°	3419.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1144	1146	1150	1152	1153	109
15°	1091	1094	1106	1115	1117	308
25°	992	1001	1023	1045	1054	456
35°	854	868	914	966	992	533
45°	682	710	789	879	911	526
55°	498	543	636	728	763	449
65°	315	359	443	532	574	313
75°	149	182	254	337	375	159
85°	29	40	52	61	57	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1147.9	1149.7	1153.4	1155.2	1157.1
5°	1144.2	1146.0	1149.7	1151.5	1153.4
7.5°	1135.0	1138.7	1142.3	1146.0	1146.0
10°	1125.8	1127.6	1133.1	1136.8	1138.7
12.5°	1109.2	1112.9	1120.3	1127.6	1129.5
15°	1090.8	1094.5	1105.5	1114.7	1116.6
17.5°	1068.8	1076.1	1089.0	1098.2	1101.9
20°	1048.5	1054.0	1068.8	1081.6	1087.1
22.5°	1019.1	1028.3	1046.7	1063.2	1070.6
25°	991.5	1000.7	1022.8	1044.8	1054.0
27.5°	960.2	971.3	997.0	1028.3	1037.5
30°	927.1	938.1	971.3	1006.2	1017.2
32.5°	890.3	903.2	943.7	984.1	1002.5
35°	853.5	868.2	914.2	965.7	991.5
37.5°	811.2	831.5	881.1	949.2	980.5
40°	768.9	791.0	849.9	932.6	962.1
42.5°	726.6	750.5	820.4	906.9	938.1
45°	682.5	710.1	789.1	879.3	910.6
47.5°	638.3	667.7	756.0	848.0	883.0
50°	592.3	625.4	721.1	811.2	846.2
52.5°	550.0	581.3	676.9	770.8	805.7
55°	498.5	542.7	636.5	728.4	763.4
57.5°	458.0	491.1	590.5	680.6	713.7
60°	408.4	445.2	542.7	631.0	667.7
62.5°	360.5	402.9	494.8	581.3	619.9
65°	314.6	358.7	443.3	531.6	573.9
67.5°	274.1	312.7	395.5	485.6	529.8
70°	228.1	264.9	345.8	437.8	483.8
72.5°	187.6	224.4	299.8	390.0	428.6
75°	149.0	182.1	253.9	336.6	375.3
77.5°	112.2	143.5	204.2	275.9	307.2
80°	79.1	106.7	156.4	198.7	209.7
82.5°	53.3	73.6	99.3	119.6	117.7
85°	29.4	40.5	51.5	60.7	57.0
87.5°	11.0	12.9	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)