

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: P220077

Luminaire Tested: **R3-WG-5L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220077
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-5L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3593.4 lumens
Efficiency: N/A
Efficacy: 100.9 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

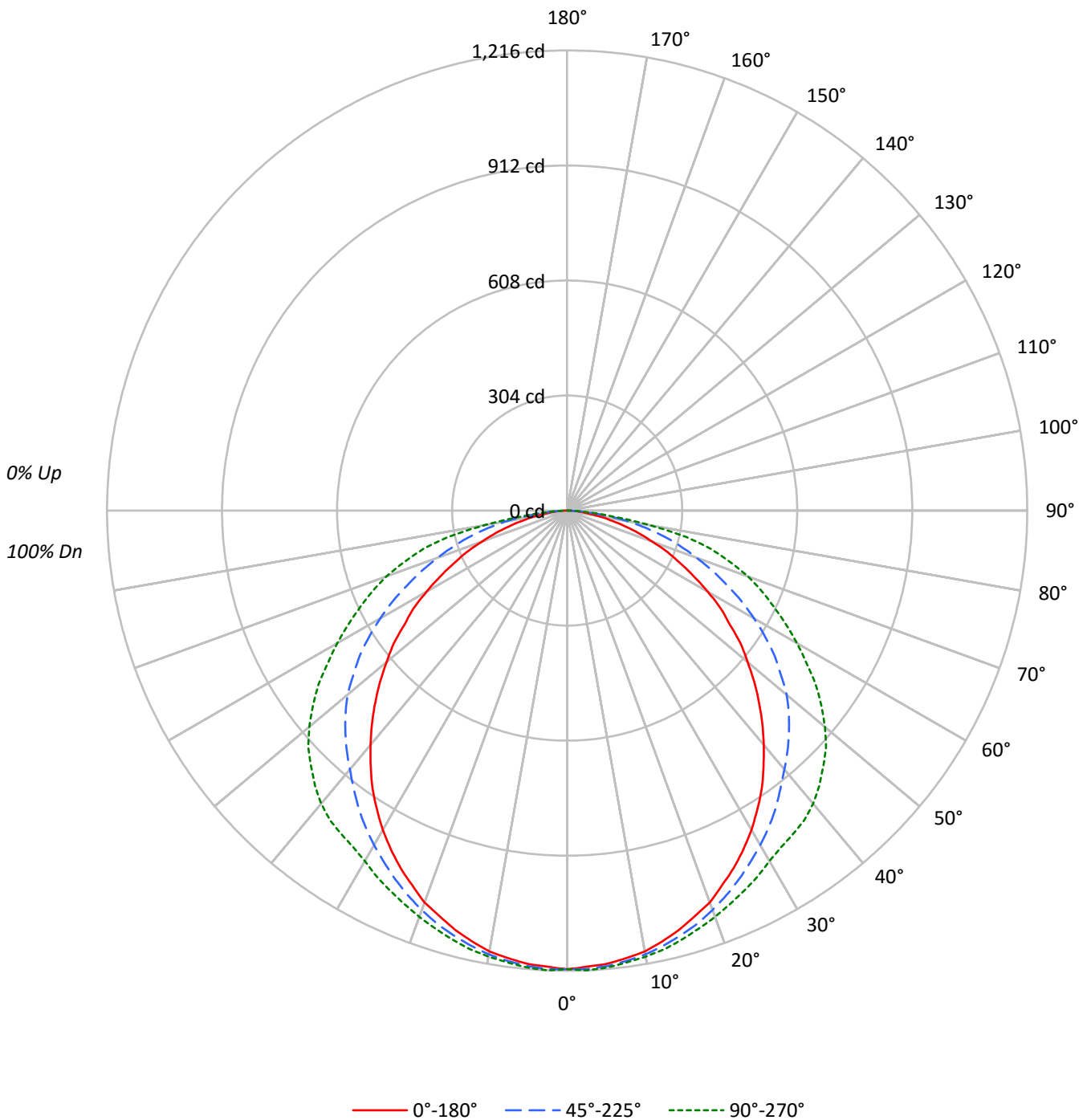
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3262	3262	3262
5°	3248	3264	3274
10°	3233	3254	3270
15°	3194	3237	3269
20°	3155	3216	3272
25°	3094	3191	3289
30°	3027	3172	3322
35°	2947	3156	3423
40°	2839	3137	3552
45°	2729	3156	3642
50°	2606	3172	3723
55°	2458	3138	3764
60°	2310	3069	3777
65°	2105	2967	3841
70°	1886	2859	4000
75°	1628	2774	4101
80°	1288	2546	3415
85°	954	1670	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.2
10°-20°	327.6	9.1
20°-30°	495.7	13.8
30°-40°	603.8	16.8
40°-50°	643.2	17.9
50°-60°	594.2	16.5
60°-70°	463.2	12.9
70°-80°	283.8	7.9
80°-90°	67.2	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°	938.0	26.1
0°-40°	1541.8	42.9
0°-60°	2779.2	77.3
0°-90°	3593.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3593.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1202	1204	1208	1210	1212	114
15°	1146	1150	1162	1172	1173	323
25°	1042	1052	1075	1098	1108	480
35°	897	912	961	1015	1042	560
45°	717	746	829	924	957	553
55°	524	570	669	766	802	471
65°	331	377	466	559	603	329
75°	157	191	267	354	394	167
85°	31	42	54	64	60	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1206.3	1208.2	1212.1	1214.0	1216.0
5°	1202.4	1204.4	1208.2	1210.2	1212.1
7.5°	1192.8	1196.6	1200.5	1204.4	1204.4
10°	1183.1	1185.0	1190.8	1194.7	1196.6
12.5°	1165.7	1169.6	1177.3	1185.0	1187.0
15°	1146.4	1150.2	1161.8	1171.5	1173.4
17.5°	1123.2	1130.9	1144.4	1154.1	1158.0
20°	1101.9	1107.7	1123.2	1136.7	1142.5
22.5°	1071.0	1080.6	1100.0	1117.4	1125.1
25°	1042.0	1051.6	1074.8	1098.0	1107.7
27.5°	1009.1	1020.7	1047.8	1080.6	1090.3
30°	974.3	985.9	1020.7	1057.4	1069.0
32.5°	935.7	949.2	991.7	1034.3	1053.6
35°	897.0	912.5	960.8	1014.9	1042.0
37.5°	852.5	873.8	926.0	997.5	1030.4
40°	808.1	831.3	893.1	980.1	1011.1
42.5°	763.6	788.7	862.2	953.1	985.9
45°	717.2	746.2	829.3	924.1	956.9
47.5°	670.8	701.7	794.5	891.2	927.9
50°	622.5	657.3	757.8	852.5	889.3
52.5°	578.0	610.9	711.4	810.0	846.7
55°	523.9	570.3	668.9	765.5	802.3
57.5°	481.4	516.2	620.6	715.3	750.1
60°	429.2	467.8	570.3	663.1	701.7
62.5°	378.9	423.4	520.0	610.9	651.5
65°	330.6	377.0	465.9	558.7	603.2
67.5°	288.0	328.6	415.6	510.4	556.8
70°	239.7	278.4	363.4	460.1	508.4
72.5°	197.2	235.8	315.1	409.8	450.4
75°	156.6	191.4	266.8	353.8	394.4
77.5°	117.9	150.8	214.6	290.0	322.8
80°	83.1	112.1	164.3	208.8	220.4
82.5°	56.1	77.3	104.4	125.7	123.7
85°	30.9	42.5	54.1	63.8	59.9
87.5°	11.6	13.5	19.3	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)