

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: P220074

Luminaire Tested: **R3-WG-2L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220074
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-2L30-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: 2310.2 lumens
Efficiency: N/A
Efficacy: 111.1 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

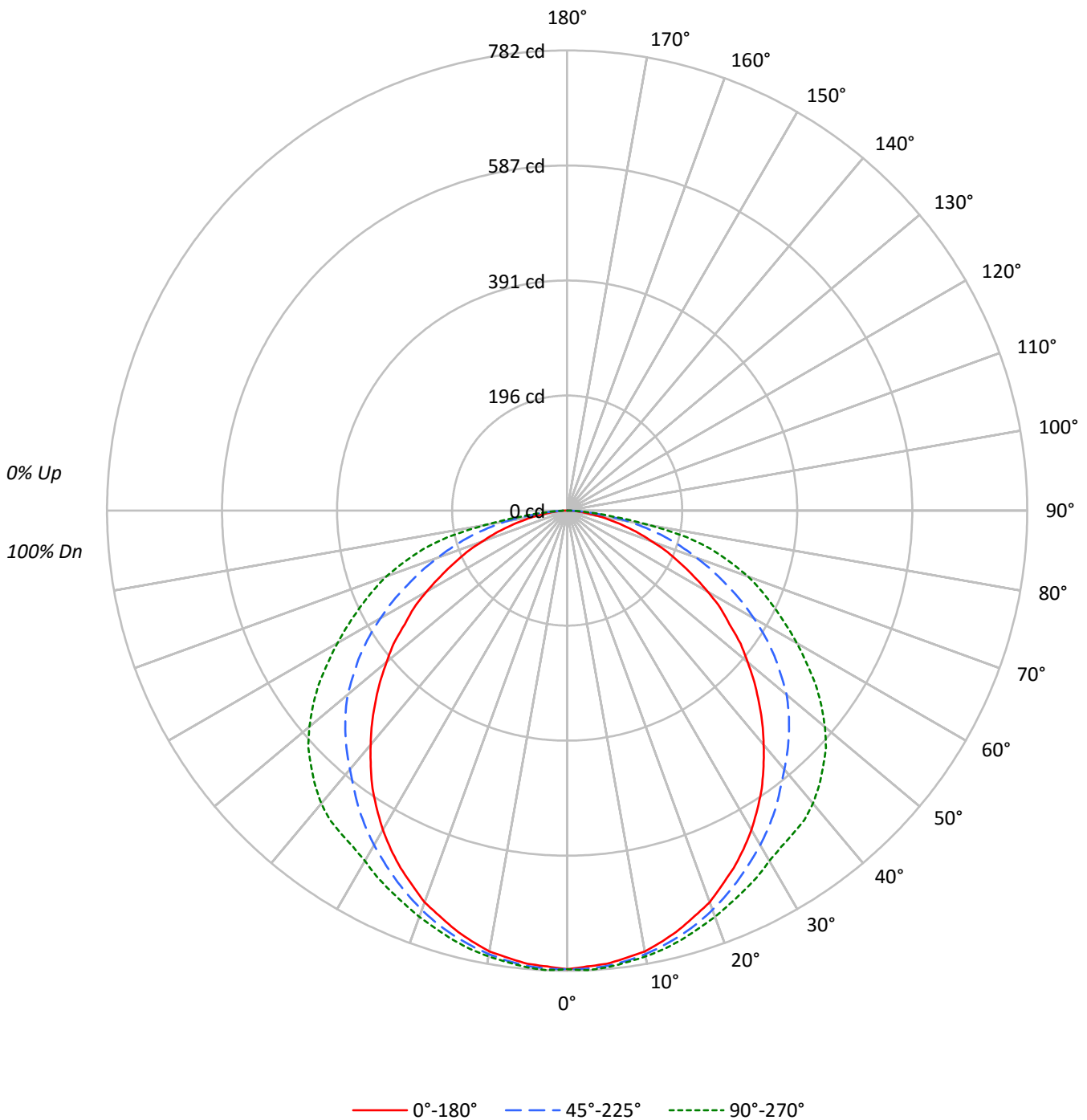
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2097	2097	2097
5°	2088	2098	2105
10°	2078	2092	2102
15°	2053	2081	2102
20°	2029	2068	2103
25°	1989	2052	2115
30°	1946	2039	2136
35°	1895	2029	2201
40°	1825	2017	2283
45°	1755	2029	2341
50°	1675	2040	2393
55°	1580	2017	2420
60°	1485	1973	2428
65°	1353	1907	2469
70°	1212	1839	2572
75°	1047	1783	2636
80°	828	1636	2196
85°	614	1074	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.2
10°-20°	210.6	9.1
20°-30°	318.7	13.8
30°-40°	388.2	16.8
40°-50°	413.5	17.9
50°-60°	382.0	16.5
60°-70°	297.8	12.9
70°-80°	182.4	7.9
80°-90°	43.2	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°	603.1	26.1
0°-40°	991.3	42.9
0°-60°	1786.8	77.3
0°-90°	2310.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	773	774	777	778	779	73
15°	737	740	747	753	754	208
25°	670	676	691	706	712	308
35°	577	587	618	652	670	360
45°	461	480	533	594	615	356
55°	337	367	430	492	516	303
65°	212	242	300	359	388	212
75°	101	123	172	227	254	107
85°	20	27	35	41	38	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.3	779.3	779.3	779.3	779.3
2.5°	775.5	776.8	779.3	780.5	781.8
5°	773.1	774.3	776.8	778.0	779.3
7.5°	766.8	769.3	771.8	774.3	774.3
10°	760.6	761.9	765.6	768.1	769.3
12.5°	749.4	751.9	756.9	761.9	763.1
15°	737.0	739.5	747.0	753.2	754.4
17.5°	722.1	727.1	735.8	742.0	744.5
20°	708.4	712.2	722.1	730.8	734.5
22.5°	688.5	694.8	707.2	718.4	723.3
25°	669.9	676.1	691.0	705.9	712.2
27.5°	648.8	656.2	673.6	694.8	701.0
30°	626.4	633.9	656.2	679.8	687.3
32.5°	601.5	610.2	637.6	664.9	677.4
35°	576.7	586.6	617.7	652.5	669.9
37.5°	548.1	561.8	595.3	641.3	662.4
40°	519.5	534.4	574.2	630.1	650.0
42.5°	490.9	507.1	554.3	612.7	633.9
45°	461.1	479.7	533.2	594.1	615.2
47.5°	431.3	451.2	510.8	573.0	596.6
50°	400.2	422.6	487.2	548.1	571.7
52.5°	371.6	392.7	457.4	520.8	544.4
55°	336.8	366.6	430.0	492.2	515.8
57.5°	309.5	331.8	399.0	459.9	482.2
60°	275.9	300.8	366.6	426.3	451.2
62.5°	243.6	272.2	334.3	392.7	418.8
65°	212.5	242.4	299.5	359.2	387.8
67.5°	185.2	211.3	267.2	328.1	357.9
70°	154.1	179.0	233.7	295.8	326.9
72.5°	126.8	151.6	202.6	263.5	289.6
75°	100.7	123.0	171.5	227.4	253.5
77.5°	75.8	96.9	138.0	186.4	207.6
80°	53.4	72.1	105.6	134.2	141.7
82.5°	36.0	49.7	67.1	80.8	79.5
85°	19.9	27.3	34.8	41.0	38.5
87.5°	7.5	8.7	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)