

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: P35854

Luminaire Tested: **R3-WG-1L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35854
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WG-1L30-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: 1858.8 lumens
Efficiency: N/A
Efficacy: 113.3 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

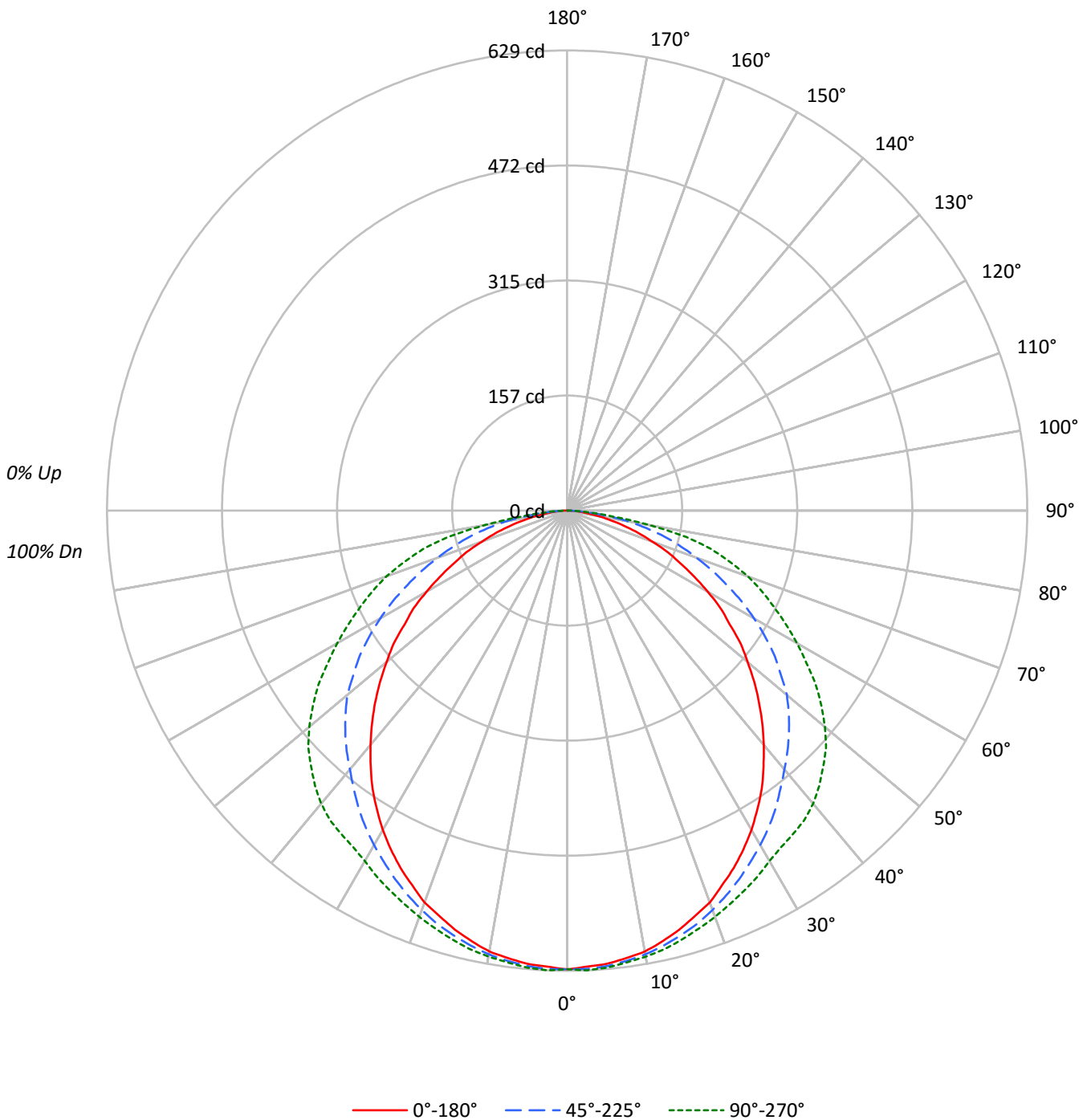
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1687	1687	1687
5°	1680	1688	1694
10°	1672	1683	1691
15°	1652	1674	1691
20°	1632	1664	1692
25°	1600	1651	1701
30°	1566	1641	1718
35°	1524	1633	1771
40°	1468	1623	1837
45°	1412	1633	1884
50°	1348	1641	1926
55°	1271	1623	1947
60°	1195	1588	1954
65°	1089	1535	1987
70°	976	1479	2069
75°	842	1435	2121
80°	666	1317	1767
85°	494	865	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.2
10°-20°	169.5	9.1
20°-30°	256.4	13.8
30°-40°	312.4	16.8
40°-50°	332.7	17.9
50°-60°	307.4	16.5
60°-70°	239.6	12.9
70°-80°	146.8	7.9
80°-90°	34.8	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°	485.2	26.1
0°-40°	797.6	42.9
0°-60°	1437.7	77.3
0°-90°	1858.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	627	627	627	627	627	
5°	622	623	625	626	627	59
15°	593	595	601	606	607	167
25°	539	544	556	568	573	248
35°	464	472	497	525	539	289
45°	371	386	429	478	495	286
55°	271	295	346	396	415	244
65°	171	195	241	289	312	170
75°	81	99	138	183	204	86
85°	16	22	28	33	31	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627	627	627	627	627
2.5°	624	625	627	628	629
5°	622	623	625	626	627
7.5°	617	619	621	623	623
10°	612	613	616	618	619
12.5°	603	605	609	613	614
15°	593	595	601	606	607
17.5°	581	585	592	597	599
20°	570	573	581	588	591
22.5°	554	559	569	578	582
25°	539	544	556	568	573
27.5°	522	528	542	559	564
30°	504	510	528	547	553
32.5°	484	491	513	535	545
35°	464	472	497	525	539
37.5°	441	452	479	516	533
40°	418	430	462	507	523
42.5°	395	408	446	493	510
45°	371	386	429	478	495
47.5°	347	363	411	461	480
50°	322	340	392	441	460
52.5°	299	316	368	419	438
55°	271	295	346	396	415
57.5°	249	267	321	370	388
60°	222	242	295	343	363
62.5°	196	219	269	316	337
65°	171	195	241	289	312
67.5°	149	170	215	264	288
70°	124	144	188	238	263
72.5°	102	122	163	212	233
75°	81	99	138	183	204
77.5°	61	78	111	150	167
80°	43	58	85	108	114
82.5°	29	40	54	65	64
85°	16	22	28	33	31
87.5°	6	7	10	10	10
90°	0	0	0	0	0

(END OF REPORT)