

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: P35853

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35853
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-1L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

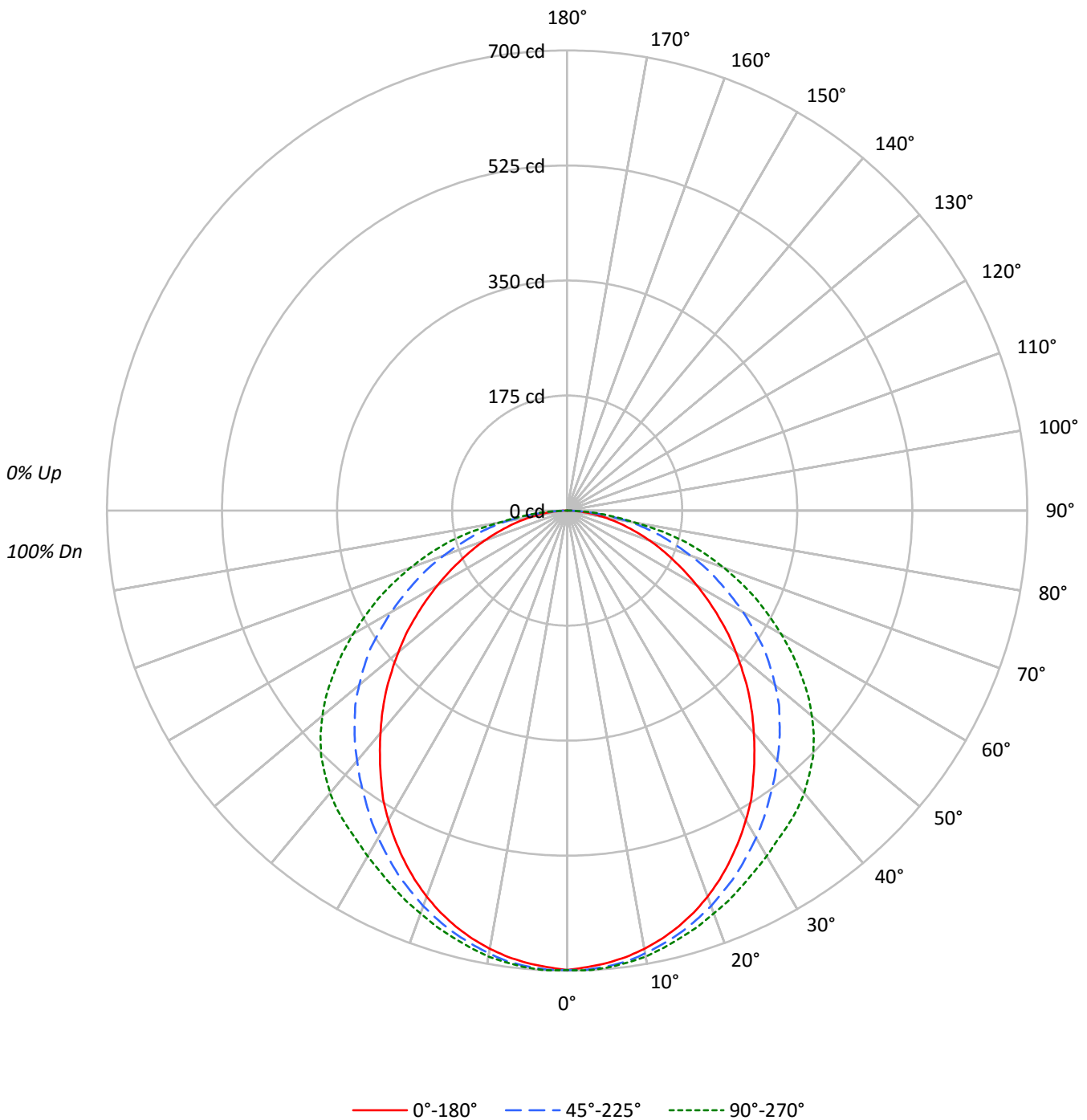
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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	33	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°	1881	1881	1881
5°	1867	1880	1885
10°	1850	1869	1883
15°	1825	1853	1872
20°	1790	1833	1867
25°	1743	1811	1871
30°	1690	1787	1886
35°	1623	1761	1922
40°	1553	1746	1971
45°	1484	1739	2013
50°	1402	1729	2035
55°	1318	1712	2036
60°	1227	1663	2024
65°	1133	1617	2018
70°	1054	1566	1991
75°	957	1528	1955
80°	852	1472	1627
85°	772	1173	1420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.3
10°-20°	187.4	9.4
20°-30°	280.7	14.1
30°-40°	337.0	17.0
40°-50°	353.1	17.8
50°-60°	321.7	16.2
60°-70°	248.4	12.5
70°-80°	150.8	7.6
80°-90°	42.3	2.1
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°	534.2	26.9
0°-40°	871.2	43.8
0°-60°	1546.0	77.8
0°-90°	1987.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	691	693	696	698	698	66
15°	655	659	665	671	672	184
25°	587	594	610	624	630	270
35°	494	506	536	571	585	309
45°	390	407	457	509	529	300
55°	281	304	365	415	434	252
65°	178	203	254	299	317	178
75°	92	110	147	178	188	98
85°	25	30	38	44	46	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	699	699	699	699	699
2.5°	695	696	699	700	700
5°	691	693	696	698	698
7.5°	685	687	692	694	694
10°	677	680	684	688	689
12.5°	667	670	675	680	681
15°	655	659	665	671	672
17.5°	641	645	653	661	663
20°	625	629	640	650	652
22.5°	607	613	625	638	642
25°	587	594	610	624	630
27.5°	566	574	592	611	618
30°	544	552	575	597	607
32.5°	521	529	556	584	595
35°	494	506	536	571	585
37.5°	468	482	517	558	574
40°	442	457	497	543	561
42.5°	416	432	478	528	545
45°	390	407	457	509	529
47.5°	362	381	437	488	509
50°	335	356	413	467	486
52.5°	309	329	389	443	462
55°	281	304	365	415	434
57.5°	254	278	336	388	406
60°	228	251	309	359	376
62.5°	203	227	281	329	346
65°	178	203	254	299	317
67.5°	156	178	228	270	285
70°	134	153	199	239	253
72.5°	112	131	172	208	221
75°	92	110	147	178	188
77.5°	73	89	121	146	149
80°	55	68	95	106	105
82.5°	40	49	64	72	72
85°	25	30	38	44	46
87.5°	11	13	16	17	15
90°	0	0	0	0	0

(END OF REPORT)