

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: P35856

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35856
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-1L30-LD5-UNV-22
Description: CLASS R3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1967.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

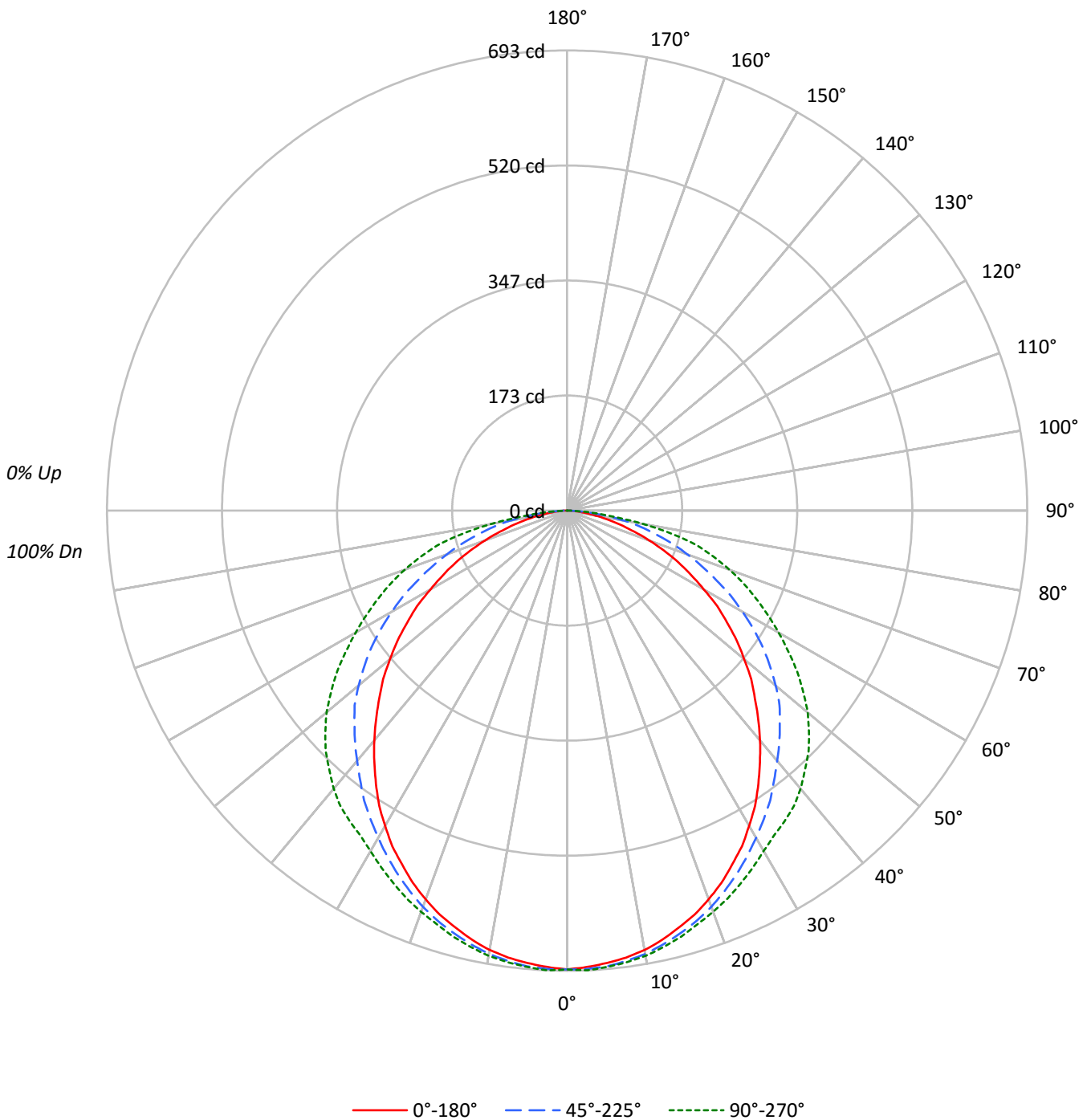
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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	34	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°	1859	1859	1859
5°	1848	1861	1864
10°	1836	1853	1861
15°	1811	1836	1850
20°	1784	1818	1841
25°	1746	1793	1838
30°	1703	1768	1840
35°	1649	1751	1876
40°	1588	1728	1922
45°	1522	1724	1956
50°	1457	1716	1980
55°	1379	1689	1985
60°	1281	1641	1981
65°	1178	1579	1999
70°	1039	1519	2046
75°	863	1445	2100
80°	682	1348	1798
85°	463	957	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.3
10°-20°	185.7	9.4
20°-30°	278.4	14.2
30°-40°	334.4	17.0
40°-50°	351.1	17.8
50°-60°	320.3	16.3
60°-70°	246.8	12.5
70°-80°	148.4	7.5
80°-90°	36.8	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°	529.4	26.9
0°-40°	863.8	43.9
0°-60°	1535.2	78.0
0°-90°	1967.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	684	686	689	690	690	65
15°	650	653	659	663	664	183
25°	588	593	604	615	619	271
35°	502	510	533	558	571	314
45°	400	413	453	496	514	309
55°	294	313	360	405	423	263
65°	185	205	248	294	314	183
75°	83	103	139	182	202	90
85°	15	22	31	36	39	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691	691	691	691	691
2.5°	688	689	691	693	693
5°	684	686	689	690	690
7.5°	679	681	684	686	686
10°	672	673	678	680	681
12.5°	662	665	669	673	673
15°	650	653	659	663	664
17.5°	638	641	648	653	653
20°	623	627	635	641	643
22.5°	607	611	620	628	632
25°	588	593	604	615	619
27.5°	570	574	587	602	606
30°	548	554	569	586	592
32.5°	527	533	551	571	580
35°	502	510	533	558	571
37.5°	477	486	512	545	561
40°	452	462	492	533	547
42.5°	426	438	473	516	530
45°	400	413	453	496	514
47.5°	376	389	434	477	494
50°	348	364	410	456	473
52.5°	322	337	385	431	448
55°	294	313	360	405	423
57.5°	268	285	333	377	395
60°	238	258	305	349	368
62.5°	211	231	278	321	341
65°	185	205	248	294	314
67.5°	158	179	220	267	288
70°	132	151	193	239	260
72.5°	106	126	166	211	231
75°	83	103	139	182	202
77.5°	63	79	114	150	162
80°	44	59	87	111	116
82.5°	28	40	57	70	69
85°	15	22	31	36	39
87.5°	7	8	10	13	14
90°	0	0	0	0	0

(END OF REPORT)