

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: P35863

Luminaire Tested: **R3-WD-1L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35863
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WD-1L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2823.5 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

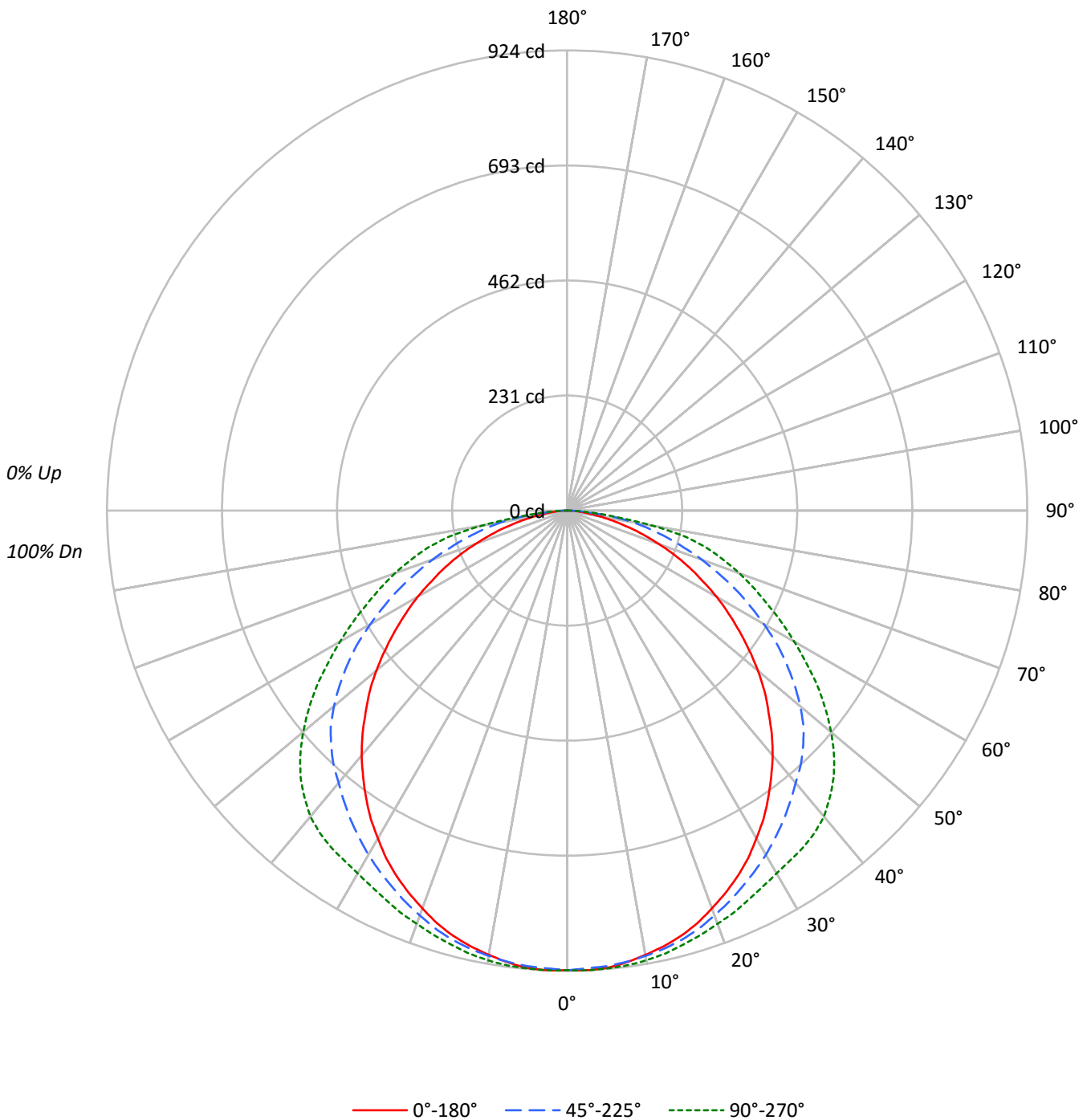
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1242	1242	1242
5°	1245	1240	1247
10°	1238	1241	1253
15°	1231	1243	1256
20°	1217	1239	1264
25°	1203	1237	1280
30°	1181	1240	1307
35°	1156	1245	1357
40°	1128	1254	1409
45°	1088	1275	1440
50°	1047	1279	1449
55°	990	1262	1440
60°	934	1227	1418
65°	863	1184	1410
70°	767	1129	1448
75°	650	1071	1508
80°	511	1038	1348
85°	371	695	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.1
10°-20°	252.1	8.9
20°-30°	385.5	13.7
30°-40°	476.7	16.9
40°-50°	513.4	18.2
50°-60°	471.3	16.7
60°-70°	361.8	12.8
70°-80°	220.2	7.8
80°-90°	55.0	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°	725.2	25.7
0°-40°	1201.9	42.6
0°-60°	2186.6	77.4
0°-90°	2823.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	922	920	918	922	923	87
15°	884	886	892	901	902	249
25°	810	819	833	856	862	373
35°	704	717	758	806	826	440
45°	572	596	670	735	757	442
55°	422	456	538	596	614	378
65°	271	307	372	425	443	268
75°	125	157	206	266	290	134
85°	24	38	45	47	50	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923	923	923	923	923
2.5°	924	923	920	923	924
5°	922	920	918	922	923
7.5°	915	915	914	920	921
10°	906	908	908	916	917
12.5°	896	898	901	910	911
15°	884	886	892	901	902
17.5°	869	873	880	890	893
20°	850	857	865	880	883
22.5°	831	839	850	867	874
25°	810	819	833	856	862
27.5°	787	796	816	842	851
30°	760	770	798	828	841
32.5°	734	744	778	816	833
35°	704	717	758	806	826
37.5°	673	687	736	796	816
40°	642	658	714	782	802
42.5°	608	627	694	760	781
45°	572	596	670	735	757
47.5°	538	563	644	708	727
50°	500	529	611	674	692
52.5°	461	495	576	639	654
55°	422	456	538	596	614
57.5°	384	423	500	555	569
60°	347	384	456	510	527
62.5°	307	347	414	468	485
65°	271	307	372	425	443
67.5°	234	268	328	382	405
70°	195	229	287	344	368
72.5°	160	191	245	306	329
75°	125	157	206	266	290
77.5°	94	123	169	226	245
80°	66	93	134	169	174
82.5°	43	65	88	98	99
85°	24	38	45	47	50
87.5°	10	13	17	18	17
90°	0	0	0	0	0

(END OF REPORT)