

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: P35871

Luminaire Tested: **R3-WD-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35871
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-14
Description: CLASS R3 1X4 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: 1816.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

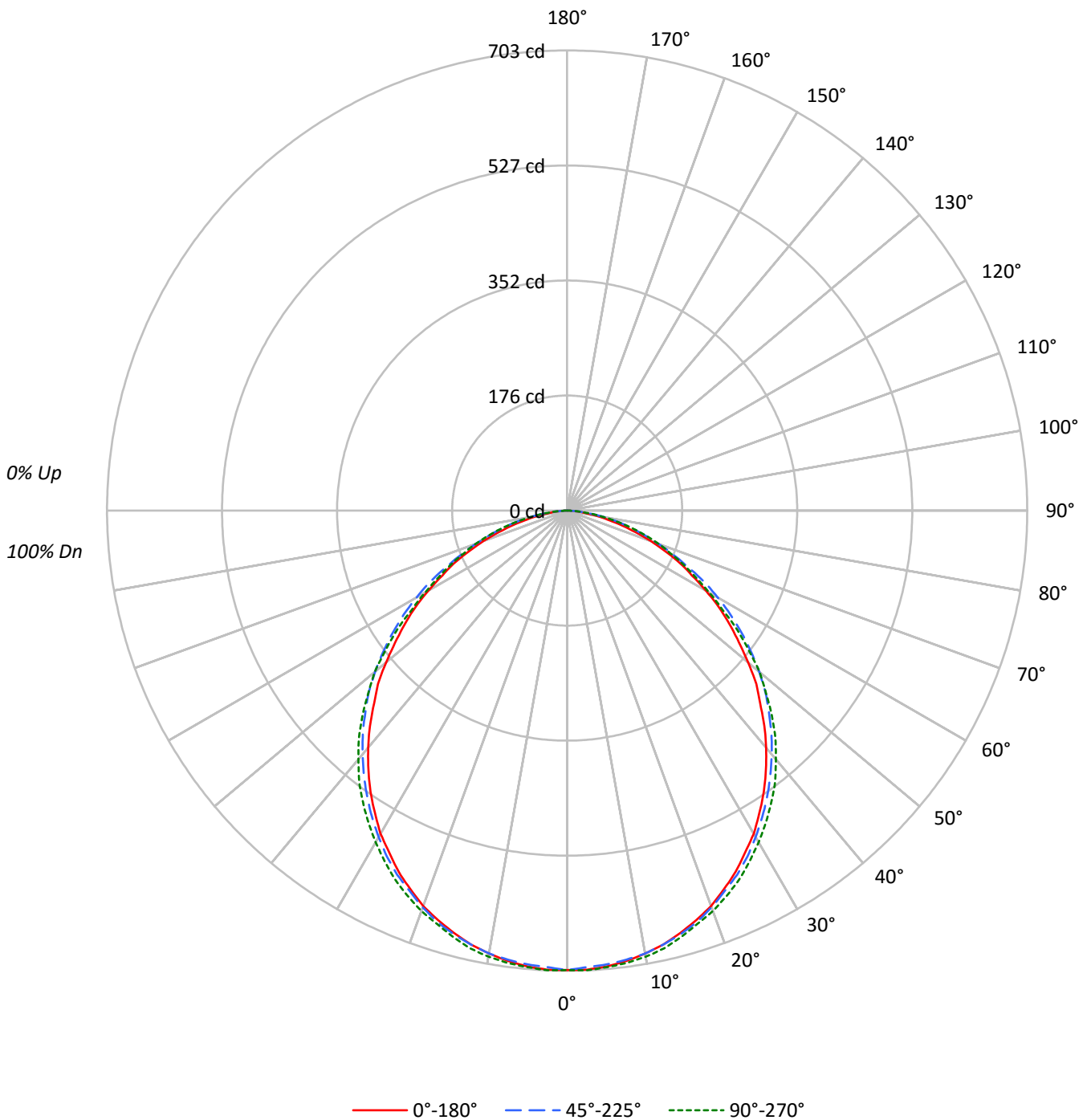
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P35871

CATALOG NUMBER: R3-WD-1L30-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P35871

CATALOG NUMBER: R3-WD-1L30-LD5-UNV-14

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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1889	1889	1889
5°	1888	1880	1891
10°	1877	1877	1891
15°	1861	1867	1878
20°	1841	1847	1864
25°	1808	1823	1847
30°	1771	1790	1818
35°	1721	1751	1787
40°	1662	1707	1742
45°	1587	1659	1682
50°	1511	1603	1608
55°	1422	1525	1487
60°	1319	1432	1351
65°	1216	1293	1254
70°	1070	1164	1172
75°	884	1050	1061
80°	682	883	868
85°	463	618	587



TEST NUMBER: P35871

CATALOG NUMBER: R3-WD-1L30-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	3.7
10°-20°	189.3	10.4
20°-30°	283.3	15.6
30°-40°	333.8	18.4
40°-50°	334.0	18.4
50°-60°	283.6	15.6
60°-70°	198.0	10.9
70°-80°	104.3	5.7
80°-90°	23.5	1.3
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°	539.0	29.7
0°-40°	872.8	48.1
0°-60°	1490.4	82.1
0°-90°	1816.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	699	699	696	700	700	66
15°	668	670	670	674	674	188
25°	609	612	614	622	622	280
35°	524	527	533	542	544	327
45°	417	424	436	443	442	323
55°	303	314	325	323	317	271
65°	191	201	203	199	197	188
75°	85	96	101	102	102	91
85°	15	19	20	19	19	19
90°	0	0	0	0	0	



TEST NUMBER: P35871

CATALOG NUMBER: R3-WD-1L30-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702	702	702	702	702
2.5°	702	701	698	702	703
5°	699	699	696	700	700
7.5°	694	695	692	697	697
10°	687	688	687	692	692
12.5°	679	680	679	684	685
15°	668	670	670	674	674
17.5°	656	658	659	662	662
20°	643	645	645	650	651
22.5°	626	629	629	637	637
25°	609	612	614	622	622
27.5°	589	592	596	604	604
30°	570	571	576	582	585
32.5°	547	550	555	564	565
35°	524	527	533	542	544
37.5°	499	502	510	521	522
40°	473	476	486	497	496
42.5°	446	450	462	470	471
45°	417	424	436	443	442
47.5°	392	397	411	414	412
50°	361	370	383	385	384
52.5°	331	340	354	354	349
55°	303	314	325	323	317
57.5°	275	284	296	290	281
60°	245	256	266	256	251
62.5°	215	230	236	225	222
65°	191	201	203	199	197
67.5°	162	175	175	173	171
70°	136	147	148	149	149
72.5°	109	122	123	126	125
75°	85	96	101	102	102
77.5°	63	72	79	79	78
80°	44	52	57	57	56
82.5°	27	34	38	37	37
85°	15	19	20	19	19
87.5°	6	7	6	4	4
90°	0	0	0	0	0

(END OF REPORT)