

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: P35870

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35870
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-14
Description: CLASS R3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1828.2 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

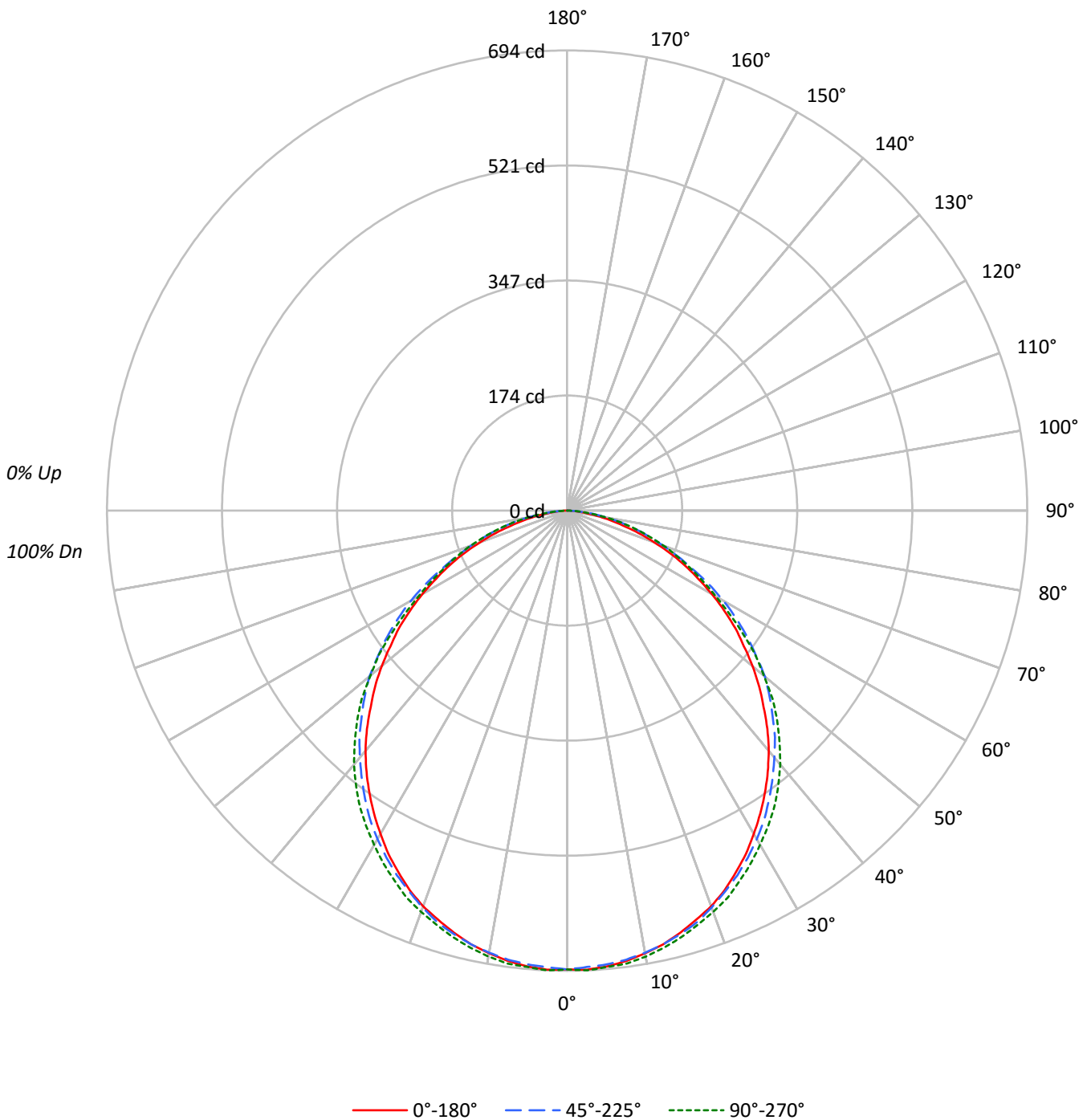
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1862	1862	1862
5°	1864	1856	1867
10°	1853	1850	1866
15°	1836	1841	1855
20°	1818	1824	1844
25°	1787	1802	1829
30°	1749	1777	1808
35°	1708	1744	1790
40°	1662	1707	1756
45°	1595	1667	1705
50°	1528	1629	1620
55°	1454	1553	1520
60°	1356	1464	1394
65°	1248	1331	1299
70°	1102	1204	1220
75°	905	1092	1102
80°	713	930	930
85°	494	679	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.6
10°-20°	186.9	10.2
20°-30°	280.5	15.3
30°-40°	332.7	18.2
40°-50°	336.2	18.4
50°-60°	289.1	15.8
60°-70°	204.0	11.2
70°-80°	108.7	5.9
80°-90°	24.6	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°	532.8	29.1
0°-40°	865.5	47.3
0°-60°	1490.8	81.5
0°-90°	1828.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1828.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	690	689	687	691	691	65
15°	659	661	661	666	666	186
25°	602	604	607	616	616	277
35°	520	524	531	542	545	325
45°	419	426	438	446	448	324
55°	310	319	331	330	324	276
65°	196	206	209	207	204	194
75°	87	99	105	109	106	95
85°	16	19	22	20	20	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692	692	692	692	692
2.5°	693	692	689	693	694
5°	690	689	687	691	691
7.5°	685	685	683	688	689
10°	678	678	677	682	683
12.5°	670	671	670	675	675
15°	659	661	661	666	666
17.5°	647	649	651	655	655
20°	635	635	637	643	644
22.5°	620	621	622	630	632
25°	602	604	607	616	616
27.5°	584	587	590	599	600
30°	563	566	572	580	582
32.5°	542	545	553	561	564
35°	520	524	531	542	545
37.5°	497	500	509	521	523
40°	473	476	486	497	500
42.5°	447	451	464	474	474
45°	419	426	438	446	448
47.5°	393	398	414	421	420
50°	365	372	389	391	387
52.5°	336	345	359	361	358
55°	310	319	331	330	324
57.5°	281	291	302	296	290
60°	252	262	272	263	259
62.5°	223	234	241	232	231
65°	196	206	209	207	204
67.5°	168	179	181	180	179
70°	140	152	153	155	155
72.5°	113	125	129	132	130
75°	87	99	105	109	106
77.5°	66	75	83	83	83
80°	46	54	60	61	60
82.5°	29	35	40	38	38
85°	16	19	22	20	20
87.5°	6	7	6	5	4
90°	0	0	0	0	0

(END OF REPORT)