

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: P35862

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35862
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-24
Description: CLASS R3 2X4 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: 2834.9 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

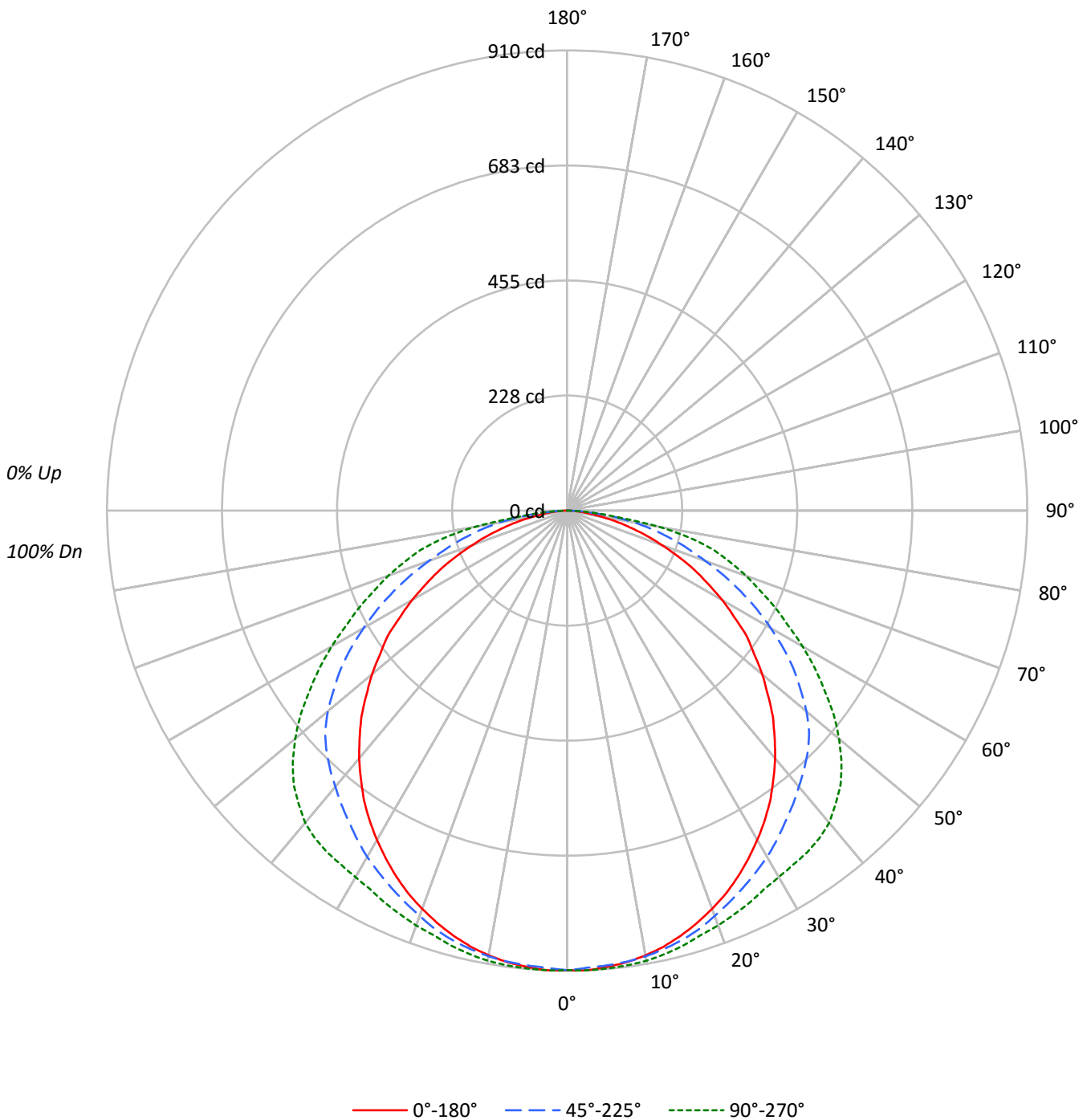
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1223	1223	1223
5°	1224	1220	1228
10°	1220	1223	1235
15°	1212	1224	1240
20°	1200	1221	1250
25°	1186	1222	1269
30°	1168	1229	1300
35°	1150	1235	1357
40°	1124	1252	1416
45°	1094	1281	1456
50°	1055	1294	1469
55°	1018	1283	1459
60°	953	1251	1448
65°	885	1207	1445
70°	787	1141	1479
75°	671	1102	1560
80°	519	1046	1441
85°	371	695	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.0
10°-20°	248.4	8.8
20°-30°	381.1	13.4
30°-40°	474.6	16.7
40°-50°	515.9	18.2
50°-60°	478.2	16.9
60°-70°	368.7	13.0
70°-80°	225.0	7.9
80°-90°	56.8	2.0
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°	715.7	25.2
0°-40°	1190.3	42.0
0°-60°	2184.4	77.1
0°-90°	2834.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	909	909	909	909	909	
5°	906	906	903	908	909	86
15°	870	874	879	888	890	245
25°	799	808	823	847	855	368
35°	700	712	752	805	826	437
45°	575	596	673	741	765	442
55°	434	463	547	606	622	385
65°	278	313	379	431	454	274
75°	129	160	212	272	300	138
85°	24	39	45	52	56	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	909	909	909	909	909
2.5°	910	908	905	909	910
5°	906	906	903	908	909
7.5°	901	900	900	905	907
10°	893	893	895	902	904
12.5°	883	884	888	896	898
15°	870	874	879	888	890
17.5°	855	859	868	877	880
20°	838	844	853	868	873
22.5°	820	827	838	857	864
25°	799	808	823	847	855
27.5°	776	786	807	834	844
30°	752	762	791	823	837
32.5°	727	737	772	813	831
35°	700	712	752	805	826
37.5°	670	683	733	796	818
40°	640	655	713	783	806
42.5°	607	628	694	764	786
45°	575	596	673	741	765
47.5°	538	566	649	713	736
50°	504	533	618	682	702
52.5°	466	499	582	646	665
55°	434	463	547	606	622
57.5°	392	429	507	564	581
60°	354	389	465	521	538
62.5°	314	355	423	476	493
65°	278	313	379	431	454
67.5°	238	273	335	389	412
70°	200	235	290	349	376
72.5°	164	196	250	309	337
75°	129	160	212	272	300
77.5°	97	126	174	230	248
80°	67	94	135	174	186
82.5°	43	66	91	105	99
85°	24	39	45	52	56
87.5°	11	13	16	18	18
90°	0	0	0	0	0

(END OF REPORT)