

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: P35864

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35864
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-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2935.5 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

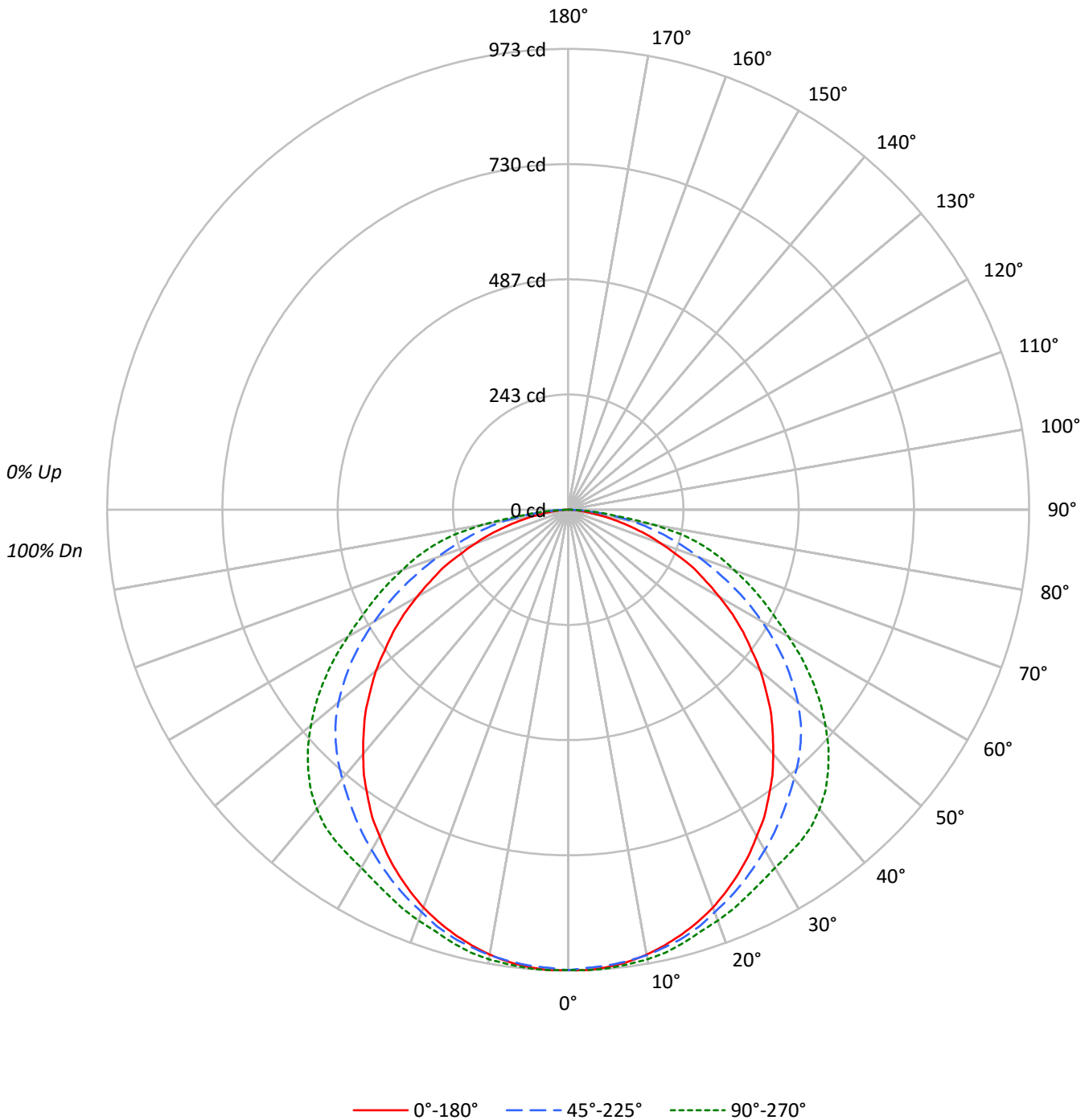
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	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	64	87	77	69	63	74	67	62	71	66	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
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°	1308	1308	1308
5°	1309	1305	1313
10°	1303	1305	1317
15°	1293	1304	1318
20°	1280	1294	1322
25°	1260	1292	1333
30°	1237	1290	1356
35°	1212	1293	1404
40°	1182	1303	1449
45°	1151	1321	1477
50°	1109	1325	1484
55°	1058	1309	1476
60°	993	1270	1445
65°	930	1219	1442
70°	822	1157	1467
75°	691	1107	1539
80°	527	1054	1418
85°	355	772	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.1
10°-20°	264.4	9.0
20°-30°	402.6	13.7
30°-40°	496.1	16.9
40°-50°	532.5	18.1
50°-60°	488.9	16.7
60°-70°	373.9	12.7
70°-80°	226.7	7.7
80°-90°	58.2	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°	759.1	25.9
0°-40°	1255.2	42.8
0°-60°	2276.6	77.6
0°-90°	2935.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	969	968	966	971	972	92
15°	928	931	936	945	946	262
25°	849	857	870	892	898	391
35°	738	750	787	835	855	462
45°	605	624	694	757	776	465
55°	451	481	558	612	629	402
65°	292	321	383	434	453	286
75°	133	162	213	272	296	143
85°	23	39	50	57	61	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972	972	972	972	972
2.5°	973	972	968	972	973
5°	969	968	966	971	972
7.5°	963	963	961	968	968
10°	954	954	955	962	964
12.5°	942	944	946	956	957
15°	928	931	936	945	946
17.5°	912	916	922	931	933
20°	894	898	904	919	923
22.5°	872	880	888	906	912
25°	849	857	870	892	898
27.5°	824	832	850	876	885
30°	796	806	830	860	873
32.5°	770	779	809	847	864
35°	738	750	787	835	855
37.5°	708	720	764	823	843
40°	673	689	742	806	825
42.5°	639	657	719	784	804
45°	605	624	694	757	776
47.5°	566	589	666	728	745
50°	530	555	633	693	709
52.5°	488	519	596	656	671
55°	451	481	558	612	629
57.5°	411	444	516	568	585
60°	369	403	472	524	537
62.5°	328	367	429	477	493
65°	292	321	383	434	453
67.5°	248	280	337	390	413
70°	209	240	294	350	373
72.5°	172	199	252	311	337
75°	133	162	213	272	296
77.5°	100	127	173	232	249
80°	68	94	136	177	183
82.5°	43	65	93	105	105
85°	23	39	50	57	61
87.5°	9	13	19	19	20
90°	0	0	0	0	0

(END OF REPORT)