

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: P35861

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35861
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-1L30-LD5-UNV-24
Description: CLASS R3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

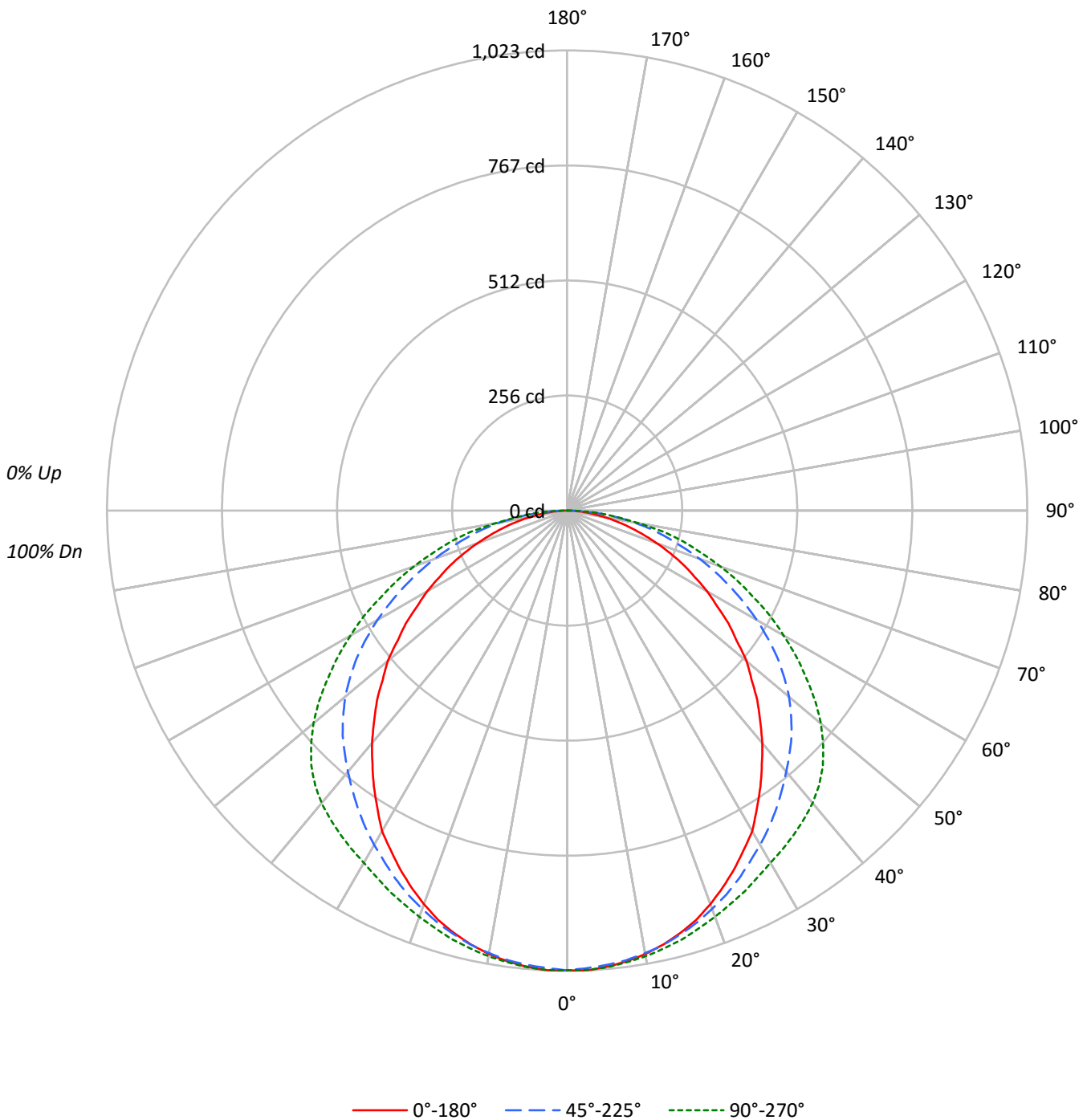
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	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	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1375	1375	1375
5°	1375	1370	1376
10°	1368	1365	1374
15°	1354	1358	1375
20°	1333	1349	1376
25°	1305	1341	1387
30°	1279	1333	1404
35°	1230	1330	1444
40°	1186	1331	1491
45°	1138	1343	1530
50°	1091	1348	1541
55°	1027	1339	1522
60°	966	1311	1496
65°	907	1270	1458
70°	834	1231	1424
75°	754	1190	1393
80°	659	1170	1247
85°	571	1050	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.2
10°-20°	275.9	9.1
20°-30°	417.4	13.8
30°-40°	509.0	16.8
40°-50°	541.7	17.9
50°-60°	496.6	16.4
60°-70°	381.7	12.6
70°-80°	231.3	7.7
80°-90°	70.7	2.3
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°	789.9	26.1
0°-40°	1299.0	43.0
0°-60°	2337.3	77.4
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1018	1017	1014	1019	1019	97
15°	972	973	975	984	987	274
25°	879	886	903	925	934	405
35°	749	767	810	860	879	468
45°	598	626	706	781	804	461
55°	438	476	571	633	649	391
65°	285	321	399	447	458	282
75°	145	177	229	263	268	154
85°	37	55	68	76	75	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022	1022	1022	1022	1022
2.5°	1023	1021	1018	1022	1022
5°	1018	1017	1014	1019	1019
7.5°	1011	1010	1008	1014	1013
10°	1001	1000	999	1006	1006
12.5°	988	988	989	996	997
15°	972	973	975	984	987
17.5°	954	955	960	972	974
20°	931	934	942	958	961
22.5°	906	911	924	942	947
25°	879	886	903	925	934
27.5°	850	858	880	908	918
30°	823	831	858	893	904
32.5°	785	799	835	876	892
35°	749	767	810	860	879
37.5°	711	734	784	845	865
40°	675	699	758	826	849
42.5°	635	663	732	805	829
45°	598	626	706	781	804
47.5°	556	589	675	753	772
50°	521	552	644	716	736
52.5°	475	516	608	676	695
55°	438	476	571	633	649
57.5°	395	441	529	590	604
60°	359	399	487	543	556
62.5°	320	363	443	495	510
65°	285	321	399	447	458
67.5°	248	285	356	400	411
70°	212	251	313	353	362
72.5°	177	211	269	308	313
75°	145	177	229	263	268
77.5°	115	144	191	218	220
80°	85	113	151	165	161
82.5°	60	82	110	113	111
85°	37	55	68	76	75
87.5°	16	25	35	33	35
90°	0	0	0	0	0

(END OF REPORT)