

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: P220015

Luminaire Tested: **Z3-WG-2L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-2L30-LD5-UNV-14
Description: CLASS Z3 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: 2645.7 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

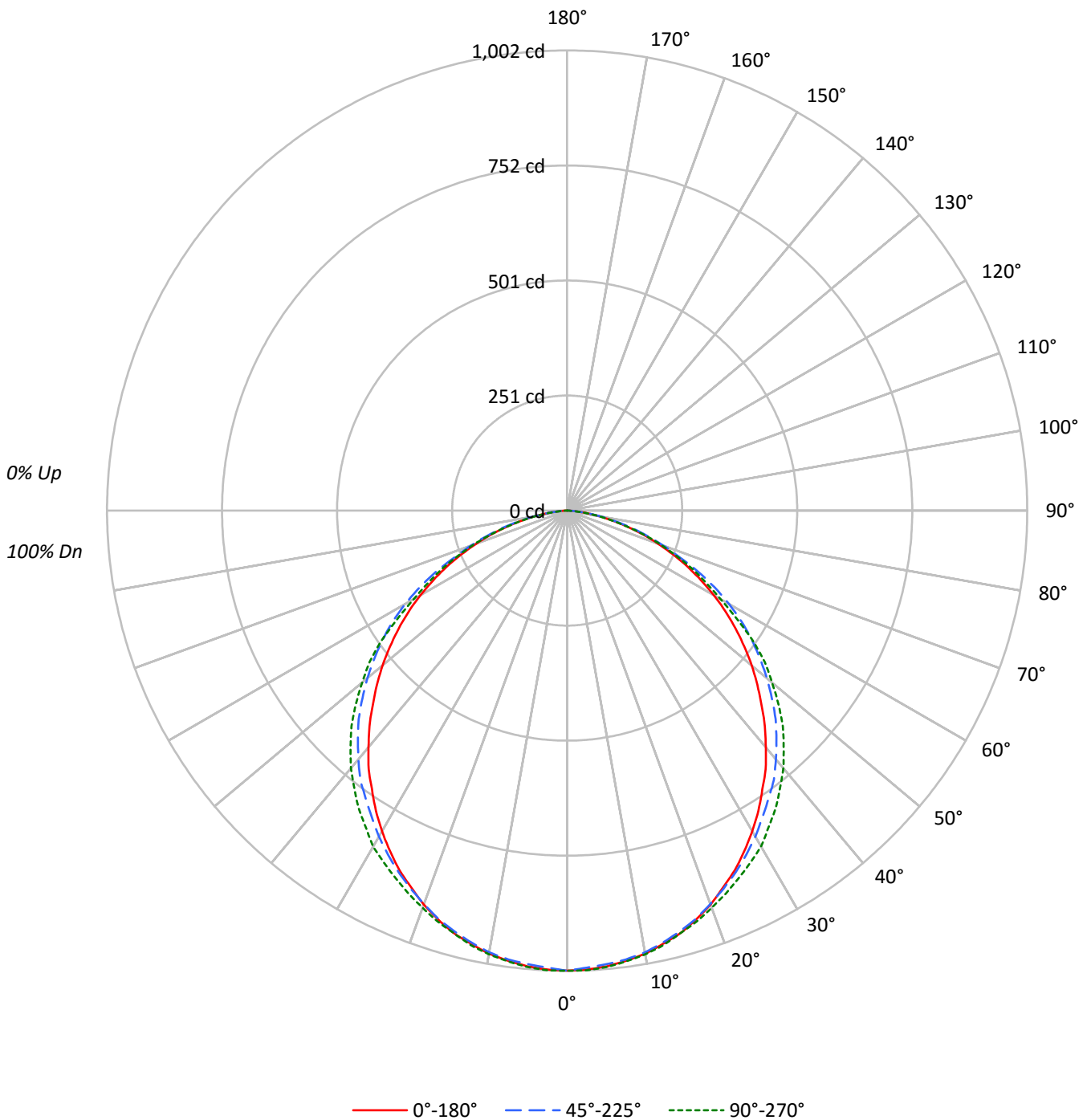
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2696	2696	2696
5°	2690	2678	2695
10°	2677	2669	2681
15°	2655	2642	2655
20°	2615	2610	2636
25°	2566	2579	2623
30°	2505	2547	2625
35°	2435	2512	2600
40°	2364	2484	2572
45°	2279	2442	2527
50°	2197	2376	2439
55°	2100	2302	2315
60°	1986	2194	2074
65°	1840	2001	1916
70°	1656	1749	1703
75°	1403	1495	1418
80°	1102	1148	1057
85°	732	685	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.6
10°-20°	268.4	10.1
20°-30°	401.8	15.2
30°-40°	479.5	18.1
40°-50°	489.8	18.5
50°-60°	429.0	16.2
60°-70°	301.5	11.4
70°-80°	151.5	5.7
80°-90°	29.7	1.1
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°	764.7	28.9
0°-40°	1244.2	47.0
0°-60°	2163.0	81.8
0°-90°	2645.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2645.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	996	996	992	998	998	95
15°	953	952	948	954	953	268
25°	864	866	868	880	883	397
35°	741	747	765	786	791	464
45°	599	611	642	660	664	462
55°	448	470	491	498	494	400
65°	289	307	314	302	301	286
75°	135	148	144	139	136	145
85°	24	25	22	19	18	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	1000.4	1000.4	996.0	1001.9	1001.9
5°	996.0	996.0	991.5	997.5	997.5
7.5°	988.6	988.6	985.6	990.0	990.0
10°	979.7	979.7	976.7	981.2	981.2
12.5°	966.3	966.3	963.4	967.8	969.3
15°	953.0	951.5	948.5	954.5	953.0
17.5°	933.7	933.7	932.2	938.2	938.2
20°	913.0	914.5	911.5	918.9	920.4
22.5°	887.8	889.3	890.7	899.6	902.6
25°	864.1	865.6	868.5	880.4	883.3
27.5°	835.9	838.9	844.8	858.1	864.1
30°	806.3	810.7	819.6	837.4	844.8
32.5°	775.1	781.1	791.4	813.7	816.6
35°	741.1	747.0	764.8	785.5	791.4
37.5°	709.9	715.9	739.6	757.4	761.8
40°	672.9	681.8	707.0	726.2	732.2
42.5°	637.3	646.2	674.4	693.6	698.1
45°	598.8	610.6	641.8	659.5	664.0
47.5°	561.7	575.1	604.7	621.0	624.0
50°	524.7	539.5	567.6	584.0	582.5
52.5°	486.1	502.4	529.1	542.5	542.5
55°	447.6	469.8	490.6	498.0	493.5
57.5°	409.1	428.3	450.6	450.6	437.2
60°	369.0	388.3	407.6	395.7	385.3
62.5°	329.0	348.3	361.6	343.8	340.9
65°	289.0	306.8	314.2	302.3	300.9
67.5°	249.0	266.8	263.8	262.3	256.4
70°	210.5	226.8	222.3	219.4	216.4
72.5°	173.4	188.2	182.3	177.9	176.4
75°	134.9	148.2	143.8	139.3	136.4
77.5°	100.8	109.7	108.2	103.7	100.8
80°	71.1	77.1	74.1	71.1	68.2
82.5°	43.0	48.9	45.9	41.5	40.0
85°	23.7	25.2	22.2	19.3	17.8
87.5°	8.9	7.4	5.9	5.9	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)