

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: P220126

Luminaire Tested: **Z3-WL-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-3L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2902.1 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

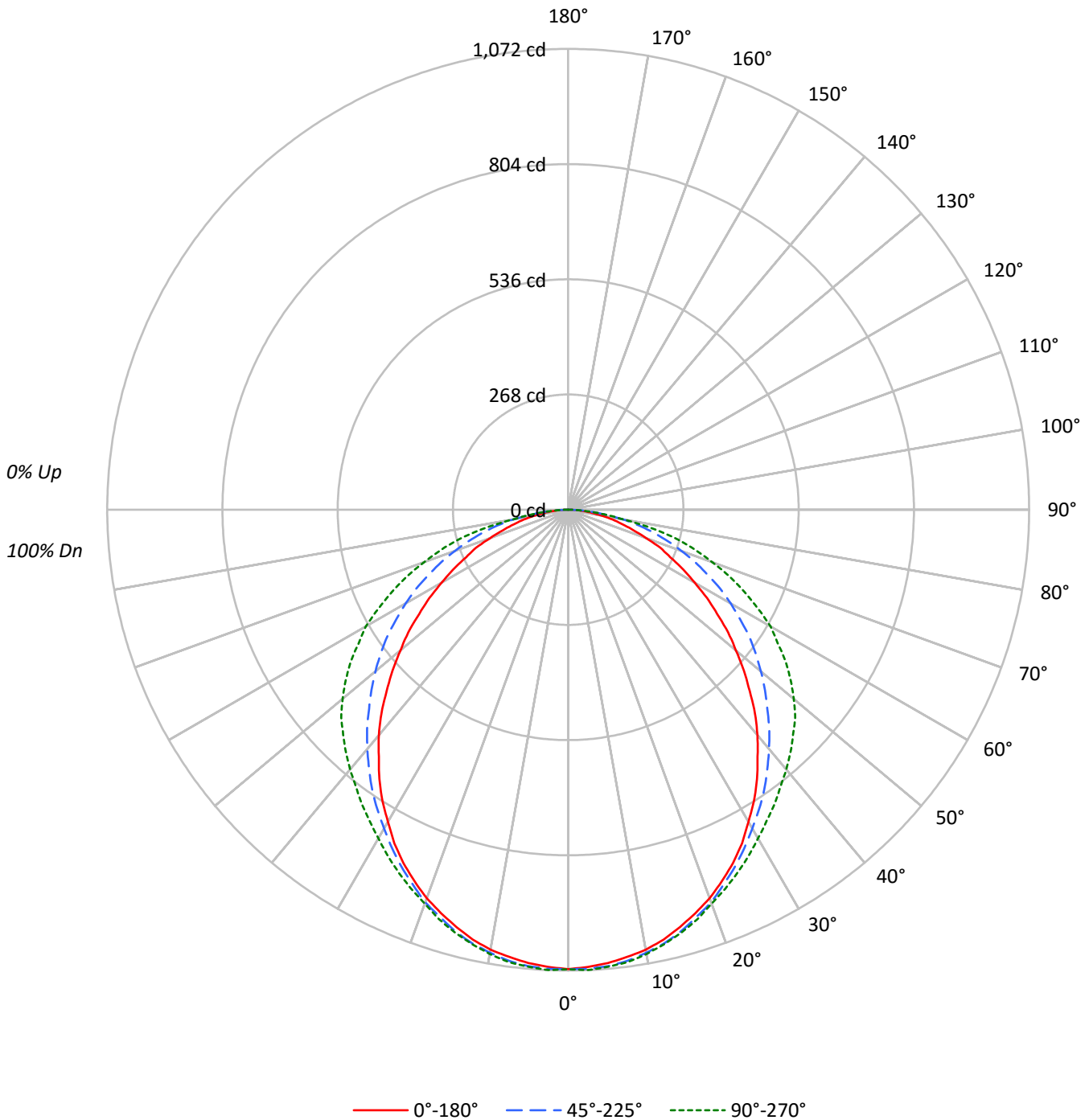
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2876	2876	2876
5°	2859	2879	2883
10°	2839	2860	2868
15°	2799	2828	2837
20°	2754	2784	2792
25°	2692	2723	2767
30°	2604	2660	2743
35°	2514	2611	2748
40°	2406	2552	2772
45°	2272	2493	2815
50°	2131	2449	2867
55°	1984	2410	2898
60°	1827	2348	2924
65°	1668	2275	2872
70°	1522	2202	2799
75°	1362	2120	2708
80°	1199	1984	2030
85°	1056	1562	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.5
10°-20°	285.5	9.8
20°-30°	422.9	14.6
30°-40°	498.5	17.2
40°-50°	511.2	17.6
50°-60°	462.2	15.9
60°-70°	355.4	12.2
70°-80°	210.6	7.3
80°-90°	54.8	1.9
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°	809.4	27.9
0°-40°	1307.9	45.1
0°-60°	2281.3	78.6
0°-90°	2902.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2902.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1058	1061	1066	1067	1067	100
15°	1005	1008	1015	1018	1018	283
25°	907	910	917	927	932	417
35°	765	770	795	823	837	478
45°	597	609	655	714	740	461
55°	423	452	514	585	618	380
65°	262	295	357	426	451	263
75°	131	156	204	247	260	140
85°	34	42	51	54	49	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.8	1068.8	1068.8	1068.8	1068.8
2.5°	1064.4	1065.9	1068.8	1071.8	1071.8
5°	1058.4	1061.4	1065.9	1067.3	1067.3
7.5°	1049.5	1052.5	1058.4	1059.9	1061.4
10°	1039.1	1040.5	1046.5	1049.5	1049.5
12.5°	1024.2	1027.1	1033.1	1036.1	1034.6
15°	1004.8	1007.8	1015.2	1018.2	1018.2
17.5°	984.0	987.0	992.9	997.4	998.9
20°	961.7	963.1	972.1	975.0	975.0
22.5°	934.9	939.3	943.8	952.7	954.2
25°	906.6	909.5	917.0	927.4	931.9
27.5°	875.3	876.8	887.2	903.6	908.1
30°	838.1	844.0	856.0	876.8	882.8
32.5°	803.9	808.3	826.2	850.0	858.9
35°	765.2	769.6	794.9	823.2	836.6
37.5°	723.5	729.4	760.7	794.9	811.3
40°	684.8	692.2	726.4	769.6	789.0
42.5°	643.1	650.5	692.2	741.3	765.2
45°	596.9	608.8	655.0	714.5	739.8
47.5°	553.8	568.7	620.8	686.3	716.0
50°	509.1	529.9	585.0	656.5	684.8
52.5°	468.9	488.3	549.3	622.2	652.0
55°	422.8	452.5	513.6	585.0	617.8
57.5°	382.6	409.4	473.4	549.3	577.6
60°	339.4	369.2	436.2	509.1	543.3
62.5°	302.2	330.5	399.0	468.9	497.2
65°	262.0	294.7	357.3	425.7	451.1
67.5°	232.2	254.6	320.1	384.1	406.4
70°	193.5	220.3	279.9	337.9	355.8
72.5°	159.3	187.6	242.6	293.3	309.6
75°	131.0	156.3	203.9	247.1	260.5
77.5°	105.7	126.5	168.2	198.0	201.0
80°	77.4	95.3	128.0	135.5	131.0
82.5°	55.1	67.0	84.9	89.3	84.9
85°	34.2	41.7	50.6	53.6	49.1
87.5°	16.4	16.4	20.8	20.8	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)