

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: P220154

Luminaire Tested: **Z3-WG-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-2L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2433.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

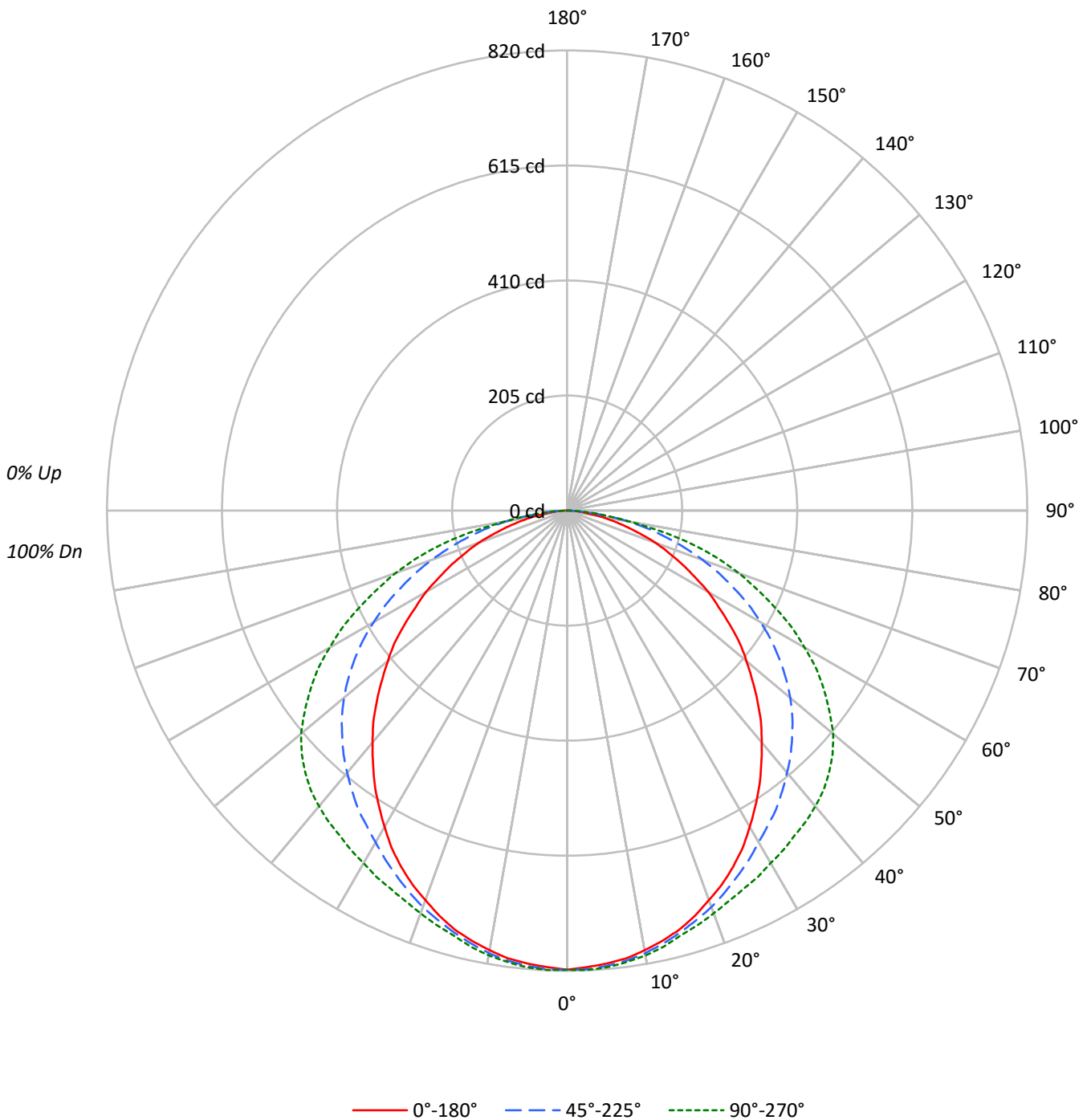
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		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	36
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		42	36	31		41	35	30	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°	2202	2202	2202
5°	2189	2199	2207
10°	2174	2188	2199
15°	2154	2168	2183
20°	2115	2153	2187
25°	2078	2134	2208
30°	2022	2121	2253
35°	1963	2134	2321
40°	1894	2142	2417
45°	1825	2158	2512
50°	1746	2174	2591
55°	1658	2168	2624
60°	1566	2145	2631
65°	1438	2089	2605
70°	1317	2017	2560
75°	1105	1892	2389
80°	905	1688	1729
85°	658	1149	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.2
10°-20°	219.7	9.0
20°-30°	332.4	13.7
30°-40°	407.3	16.7
40°-50°	438.3	18.0
50°-60°	410.8	16.9
60°-70°	320.0	13.2
70°-80°	185.1	7.6
80°-90°	42.5	1.7
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°	629.3	25.9
0°-40°	1036.6	42.6
0°-60°	1885.6	77.5
0°-90°	2433.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2433.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	818	818	818	818	818	
5°	810	812	814	816	817	77
15°	773	773	778	784	784	218
25°	700	704	719	736	744	322
35°	598	610	650	691	707	373
45°	480	502	567	634	660	370
55°	353	392	462	534	559	316
65°	226	264	328	388	409	224
75°	106	138	182	216	230	115
85°	21	32	37	38	37	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.2	818.2	818.2	818.2	818.2
2.5°	814.2	815.5	818.2	819.5	819.5
5°	810.2	811.5	814.2	815.5	816.9
7.5°	804.9	806.2	808.9	811.5	811.5
10°	795.6	796.9	800.9	803.6	804.9
12.5°	785.0	786.3	790.3	792.9	795.6
15°	773.0	773.0	778.3	783.6	783.6
17.5°	757.1	759.7	765.1	771.7	774.3
20°	738.5	742.5	751.8	759.7	763.7
22.5°	721.2	725.2	735.8	747.8	753.1
25°	700.0	704.0	718.6	735.8	743.8
27.5°	677.4	684.0	701.3	726.5	735.8
30°	650.8	658.8	682.7	714.6	725.2
32.5°	624.3	634.9	665.4	704.0	717.2
35°	597.7	609.7	649.5	690.7	706.6
37.5°	568.5	583.1	629.6	678.7	698.6
40°	539.3	555.2	609.7	665.4	688.0
42.5°	511.4	531.3	589.7	649.5	676.1
45°	479.5	502.1	567.1	633.6	660.1
47.5°	447.6	475.5	544.6	613.6	641.5
50°	417.1	446.3	519.3	591.1	618.9
52.5°	387.8	418.4	491.4	563.2	589.7
55°	353.3	391.8	462.2	533.9	559.2
57.5°	320.1	358.6	431.7	499.4	527.3
60°	290.9	324.1	398.5	463.5	488.8
62.5°	256.3	292.2	365.3	426.4	451.6
65°	225.8	264.3	328.1	387.8	409.1
67.5°	195.2	228.5	293.5	345.3	365.3
70°	167.4	197.9	256.3	304.2	325.4
72.5°	135.5	167.4	219.2	260.3	280.3
75°	106.3	138.1	182.0	216.5	229.8
77.5°	81.0	108.9	146.1	170.0	172.7
80°	58.4	79.7	108.9	115.6	111.6
82.5°	37.2	54.5	69.1	70.4	70.4
85°	21.3	31.9	37.2	38.5	37.2
87.5°	9.3	12.0	12.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)