

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: P220019

Luminaire Tested: **Z3-WG-1L35-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220019
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-1L35-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1805.3 lumens
Efficiency: N/A
Efficacy: 114.3 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

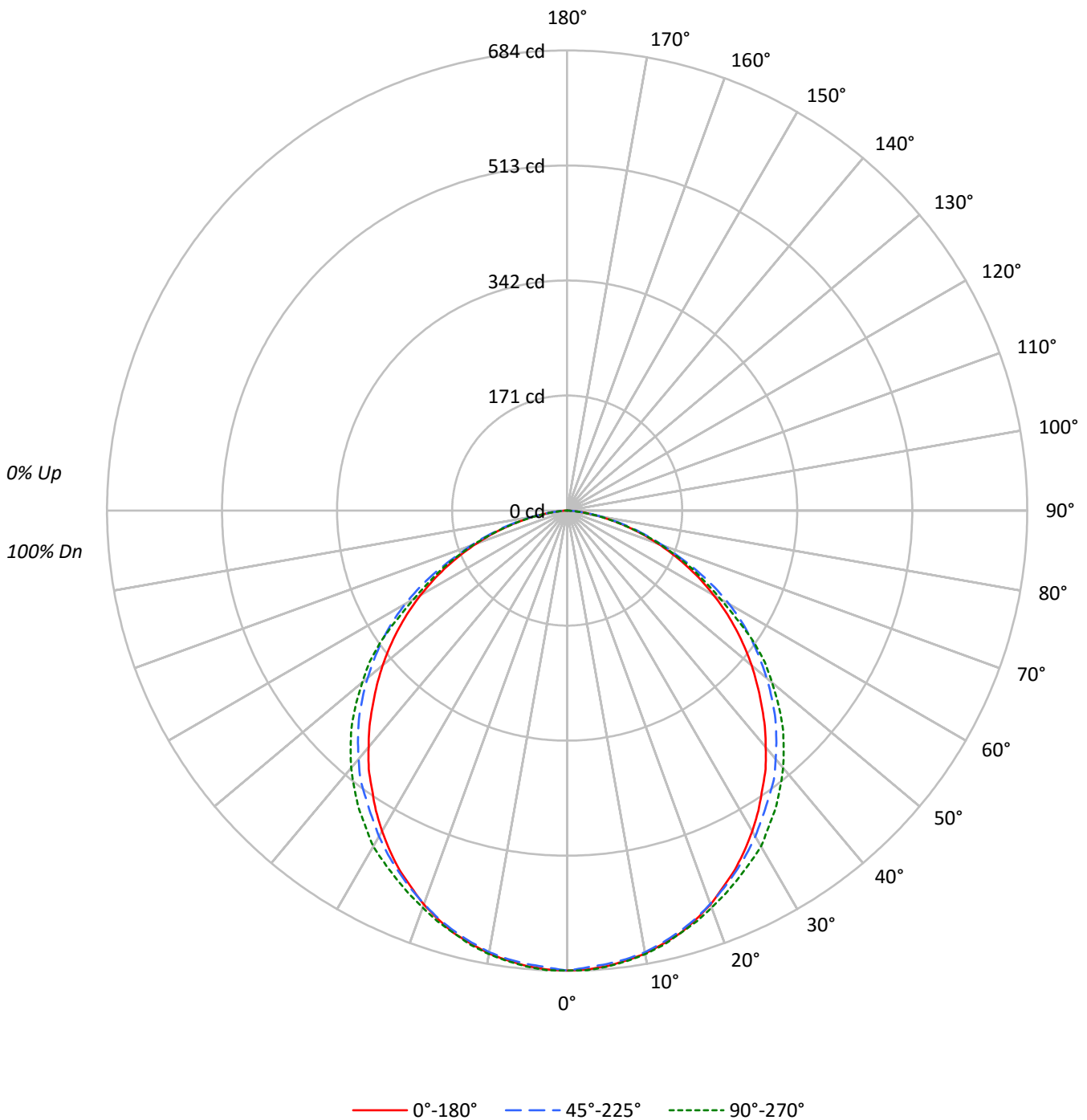
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1840	1840	1840
5°	1836	1828	1838
10°	1827	1821	1829
15°	1812	1803	1812
20°	1784	1781	1798
25°	1751	1760	1790
30°	1710	1738	1791
35°	1661	1714	1774
40°	1613	1695	1755
45°	1555	1666	1724
50°	1499	1621	1664
55°	1433	1571	1580
60°	1355	1497	1415
65°	1256	1365	1307
70°	1130	1194	1162
75°	957	1020	967
80°	752	784	721
85°	500	469	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	3.6
10°-20°	183.2	10.1
20°-30°	274.2	15.2
30°-40°	327.2	18.1
40°-50°	334.2	18.5
50°-60°	292.7	16.2
60°-70°	205.8	11.4
70°-80°	103.3	5.7
80°-90°	20.3	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°	521.8	28.9
0°-40°	849.0	47.0
0°-60°	1476.0	81.8
0°-90°	1805.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1805.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	680	680	677	681	681	65
15°	650	649	647	651	650	183
25°	590	591	593	601	603	271
35°	506	510	522	536	540	317
45°	409	417	438	450	453	316
55°	305	321	335	340	337	273
65°	197	209	214	206	205	195
75°	92	101	98	95	93	99
85°	16	17	15	13	12	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.7	683.7	683.7	683.7	683.7
2.5°	682.7	682.7	679.6	683.7	683.7
5°	679.6	679.6	676.6	680.6	680.6
7.5°	674.6	674.6	672.5	675.6	675.6
10°	668.5	668.5	666.5	669.5	669.5
12.5°	659.4	659.4	657.4	660.4	661.4
15°	650.3	649.3	647.3	651.3	650.3
17.5°	637.1	637.1	636.1	640.2	640.2
20°	623.0	624.0	622.0	627.0	628.0
22.5°	605.8	606.8	607.8	613.9	615.9
25°	589.6	590.6	592.6	600.7	602.8
27.5°	570.4	572.4	576.5	585.6	589.6
30°	550.2	553.2	559.3	571.4	576.5
32.5°	528.9	533.0	540.1	555.2	557.3
35°	505.7	509.7	521.9	536.0	540.1
37.5°	484.4	488.5	504.7	516.8	519.8
40°	459.2	465.2	482.4	495.6	499.6
42.5°	434.9	440.9	460.2	473.3	476.3
45°	408.6	416.7	437.9	450.0	453.1
47.5°	383.3	392.4	412.6	423.8	425.8
50°	358.0	368.1	387.3	398.5	397.5
52.5°	331.7	342.8	361.1	370.2	370.2
55°	305.4	320.6	334.8	339.8	336.8
57.5°	279.1	292.3	307.4	307.4	298.3
60°	251.8	265.0	278.1	270.0	263.0
62.5°	224.5	237.7	246.8	234.6	232.6
65°	197.2	209.3	214.4	206.3	205.3
67.5°	169.9	182.0	180.0	179.0	175.0
70°	143.6	154.7	151.7	149.7	147.7
72.5°	118.3	128.4	124.4	121.4	120.4
75°	92.0	101.1	98.1	95.1	93.0
77.5°	68.8	74.8	73.8	70.8	68.8
80°	48.5	52.6	50.6	48.5	46.5
82.5°	29.3	33.4	31.4	28.3	27.3
85°	16.2	17.2	15.2	13.1	12.1
87.5°	6.1	5.1	4.0	4.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)