

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: P220147

Luminaire Tested: **Z3-WG-1L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220147
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-1L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1897.7 lumens
Efficiency: N/A
Efficacy: 115.7 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

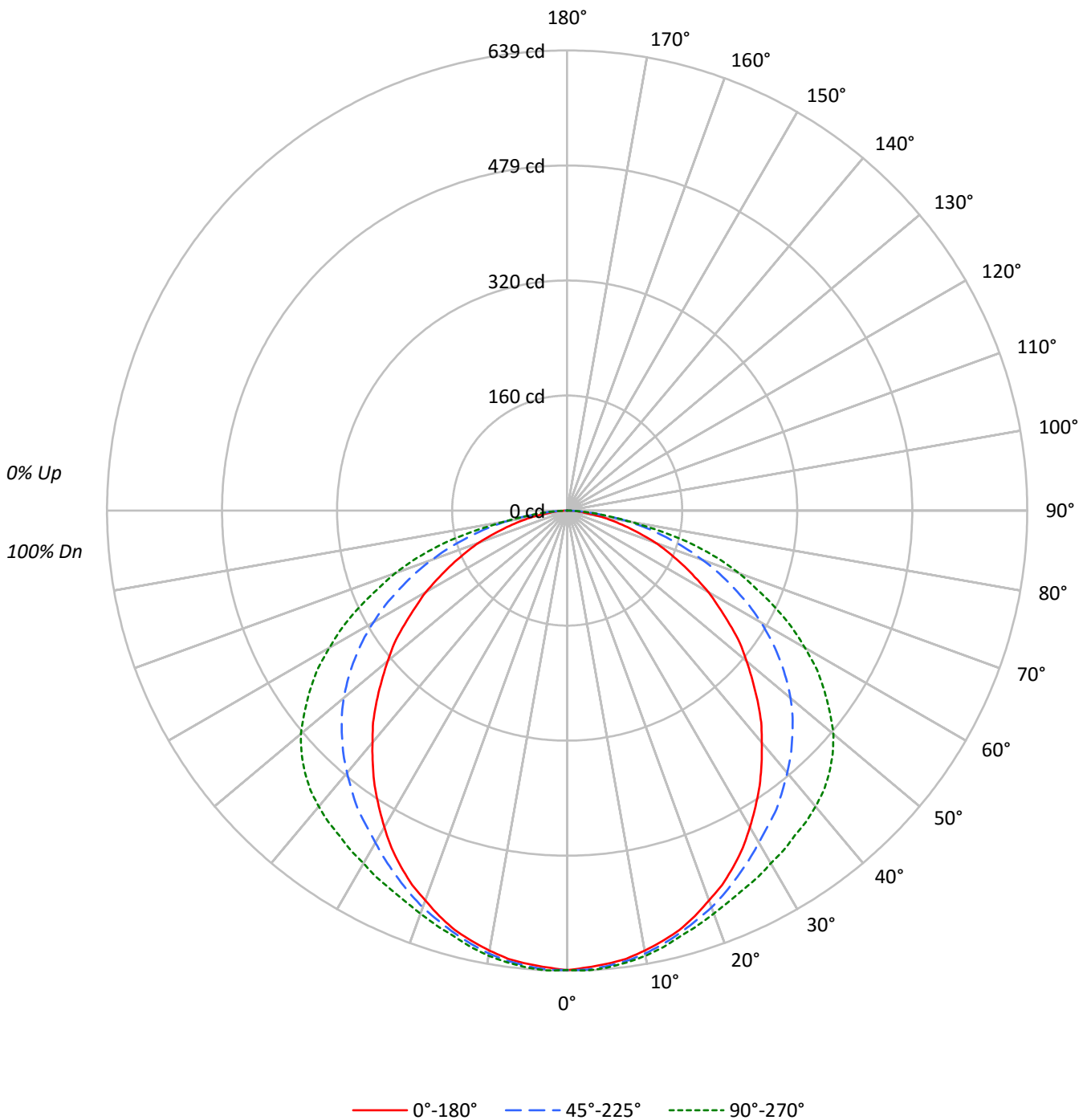
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1717	1717	1717
5°	1707	1715	1721
10°	1696	1707	1715
15°	1680	1691	1703
20°	1649	1679	1706
25°	1621	1664	1722
30°	1577	1655	1757
35°	1532	1664	1810
40°	1477	1670	1885
45°	1423	1683	1959
50°	1362	1696	2021
55°	1293	1691	2046
60°	1221	1673	2052
65°	1121	1629	2032
70°	1027	1573	1997
75°	862	1475	1863
80°	707	1316	1348
85°	513	895	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	3.2
10°-20°	171.3	9.0
20°-30°	259.2	13.7
30°-40°	317.6	16.7
40°-50°	341.8	18.0
50°-60°	320.4	16.9
60°-70°	249.6	13.2
70°-80°	144.3	7.6
80°-90°	33.2	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°	490.8	25.9
0°-40°	808.4	42.6
0°-60°	1470.6	77.5
0°-90°	1897.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	632	633	635	636	637	60
15°	603	603	607	611	611	170
25°	546	549	560	574	580	251
35°	466	476	507	539	551	291
45°	374	392	442	494	515	288
55°	276	306	360	416	436	247
65°	176	206	256	302	319	175
75°	83	108	142	169	179	90
85°	17	25	29	30	29	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	638.1	638.1	638.1	638.1	638.1
2.5°	635.0	636.0	638.1	639.2	639.2
5°	631.9	632.9	635.0	636.0	637.1
7.5°	627.8	628.8	630.9	632.9	632.9
10°	620.5	621.5	624.6	626.7	627.8
12.5°	612.2	613.3	616.4	618.4	620.5
15°	602.9	602.9	607.0	611.2	611.2
17.5°	590.5	592.5	596.7	601.9	603.9
20°	576.0	579.1	586.3	592.5	595.6
22.5°	562.5	565.6	573.9	583.2	587.4
25°	545.9	549.0	560.4	573.9	580.1
27.5°	528.3	533.5	547.0	566.6	573.9
30°	507.6	513.8	532.5	557.3	565.6
32.5°	486.9	495.2	519.0	549.0	559.4
35°	466.2	475.5	506.6	538.7	551.1
37.5°	443.4	454.8	491.0	529.3	544.9
40°	420.6	433.0	475.5	519.0	536.6
42.5°	398.8	414.4	459.9	506.6	527.3
45°	374.0	391.6	442.3	494.1	514.8
47.5°	349.1	370.9	424.7	478.6	500.3
50°	325.3	348.1	405.0	461.0	482.7
52.5°	302.5	326.3	383.3	439.2	459.9
55°	275.6	305.6	360.5	416.4	436.1
57.5°	249.7	279.7	336.7	389.5	411.3
60°	226.9	252.8	310.8	361.5	381.2
62.5°	199.9	227.9	284.9	332.5	352.2
65°	176.1	206.1	255.9	302.5	319.1
67.5°	152.3	178.2	228.9	269.3	284.9
70°	130.5	154.3	199.9	237.2	253.8
72.5°	105.7	130.5	170.9	203.0	218.6
75°	82.9	107.7	141.9	168.9	179.2
77.5°	63.2	84.9	113.9	132.6	134.7
80°	45.6	62.2	84.9	90.1	87.0
82.5°	29.0	42.5	53.9	54.9	54.9
85°	16.6	24.9	29.0	30.0	29.0
87.5°	7.3	9.3	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)