

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: P220148

Luminaire Tested: **Z3-WG-2L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220148
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-2L35-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: 2358.6 lumens
Efficiency: N/A
Efficacy: 113.4 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

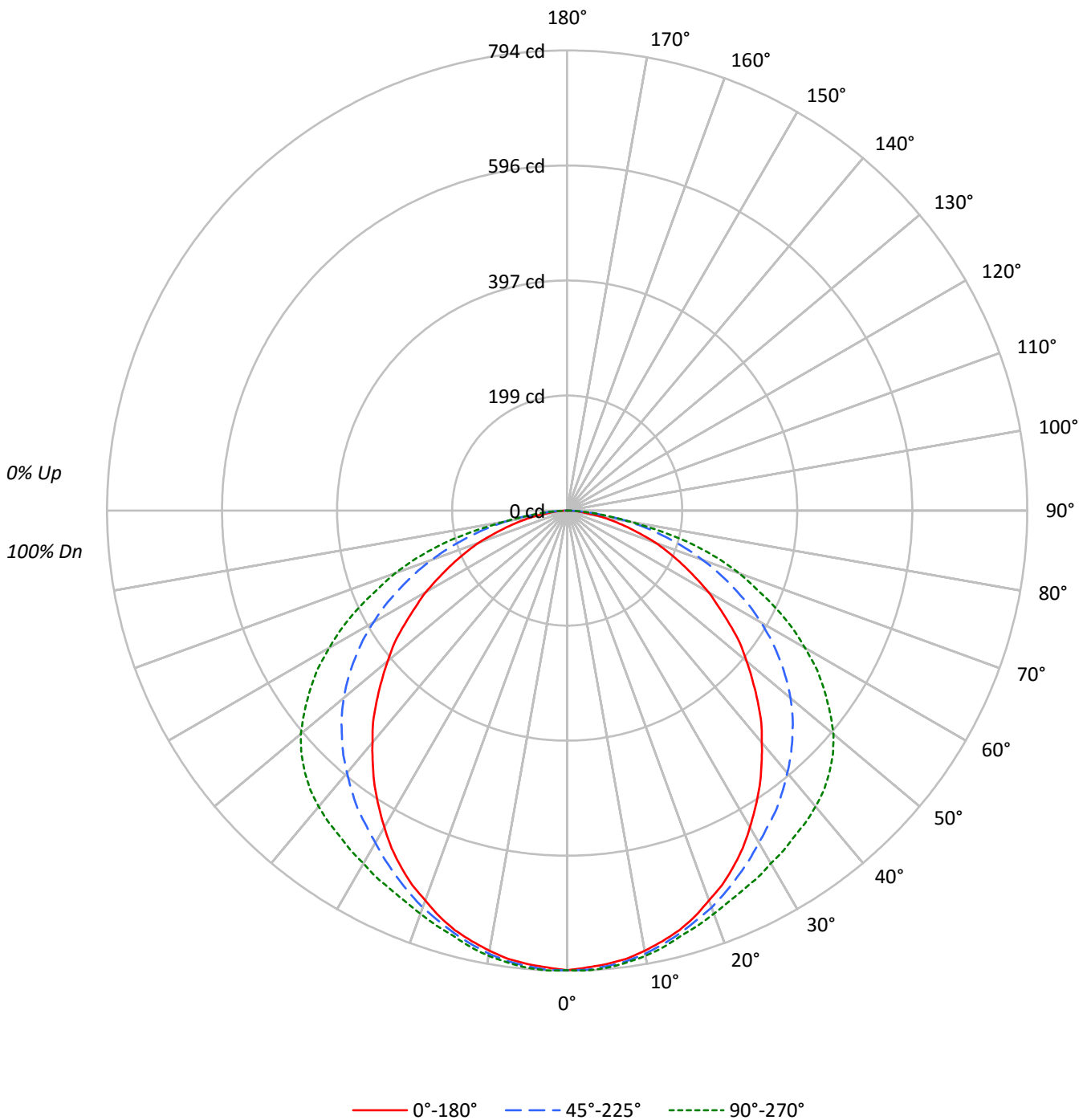
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2134	2134	2134
5°	2122	2132	2139
10°	2107	2122	2132
15°	2087	2102	2116
20°	2050	2087	2120
25°	2015	2068	2141
30°	1960	2056	2184
35°	1903	2068	2250
40°	1836	2076	2343
45°	1769	2092	2435
50°	1693	2107	2512
55°	1607	2102	2543
60°	1518	2079	2550
65°	1394	2025	2525
70°	1276	1955	2482
75°	1071	1834	2315
80°	877	1636	1675
85°	636	1112	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.2
10°-20°	212.9	9.0
20°-30°	322.2	13.7
30°-40°	394.8	16.7
40°-50°	424.8	18.0
50°-60°	398.2	16.9
60°-70°	310.2	13.2
70°-80°	179.4	7.6
80°-90°	41.2	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°	610.0	25.9
0°-40°	1004.8	42.6
0°-60°	1827.8	77.5
0°-90°	2358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	793	793	793	793	793	
5°	785	787	789	790	792	75
15°	749	749	754	760	760	211
25°	678	682	696	713	721	312
35°	579	591	630	670	685	362
45°	465	487	550	614	640	358
55°	342	380	448	518	542	307
65°	219	256	318	376	396	217
75°	103	134	176	210	223	111
85°	21	31	36	37	36	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	793.1	793.1	793.1	793.1	793.1
2.5°	789.2	790.5	793.1	794.4	794.4
5°	785.4	786.7	789.2	790.5	791.8
7.5°	780.2	781.5	784.1	786.7	786.7
10°	771.2	772.5	776.4	778.9	780.2
12.5°	760.9	762.2	766.1	768.6	771.2
15°	749.3	749.3	754.5	759.6	759.6
17.5°	733.9	736.4	741.6	748.0	750.6
20°	715.8	719.7	728.7	736.4	740.3
22.5°	699.1	703.0	713.3	724.9	730.0
25°	678.5	682.4	696.5	713.3	721.0
27.5°	656.6	663.1	679.8	704.3	713.3
30°	630.9	638.6	661.8	692.7	703.0
32.5°	605.1	615.4	645.0	682.4	695.2
35°	579.4	591.0	629.6	669.5	684.9
37.5°	551.0	565.2	610.3	657.9	677.2
40°	522.7	538.2	591.0	645.0	666.9
42.5°	495.7	515.0	571.6	629.6	655.3
45°	464.8	486.7	549.8	614.1	639.9
47.5°	433.9	460.9	527.9	594.8	621.9
50°	404.3	432.6	503.4	572.9	600.0
52.5°	375.9	405.6	476.4	545.9	571.6
55°	342.5	379.8	448.0	517.6	542.0
57.5°	310.3	347.6	418.4	484.1	511.1
60°	282.0	314.1	386.2	449.3	473.8
62.5°	248.5	283.2	354.1	413.3	437.7
65°	218.9	256.2	318.0	375.9	396.5
67.5°	189.3	221.4	284.5	334.7	354.1
70°	162.2	191.8	248.5	294.8	315.4
72.5°	131.3	162.2	212.4	252.3	271.7
75°	103.0	133.9	176.4	209.9	222.7
77.5°	78.5	105.6	141.6	164.8	167.4
80°	56.6	77.2	105.6	112.0	108.1
82.5°	36.0	52.8	66.9	68.2	68.2
85°	20.6	30.9	36.0	37.3	36.0
87.5°	9.0	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)