

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: P220165

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-2L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

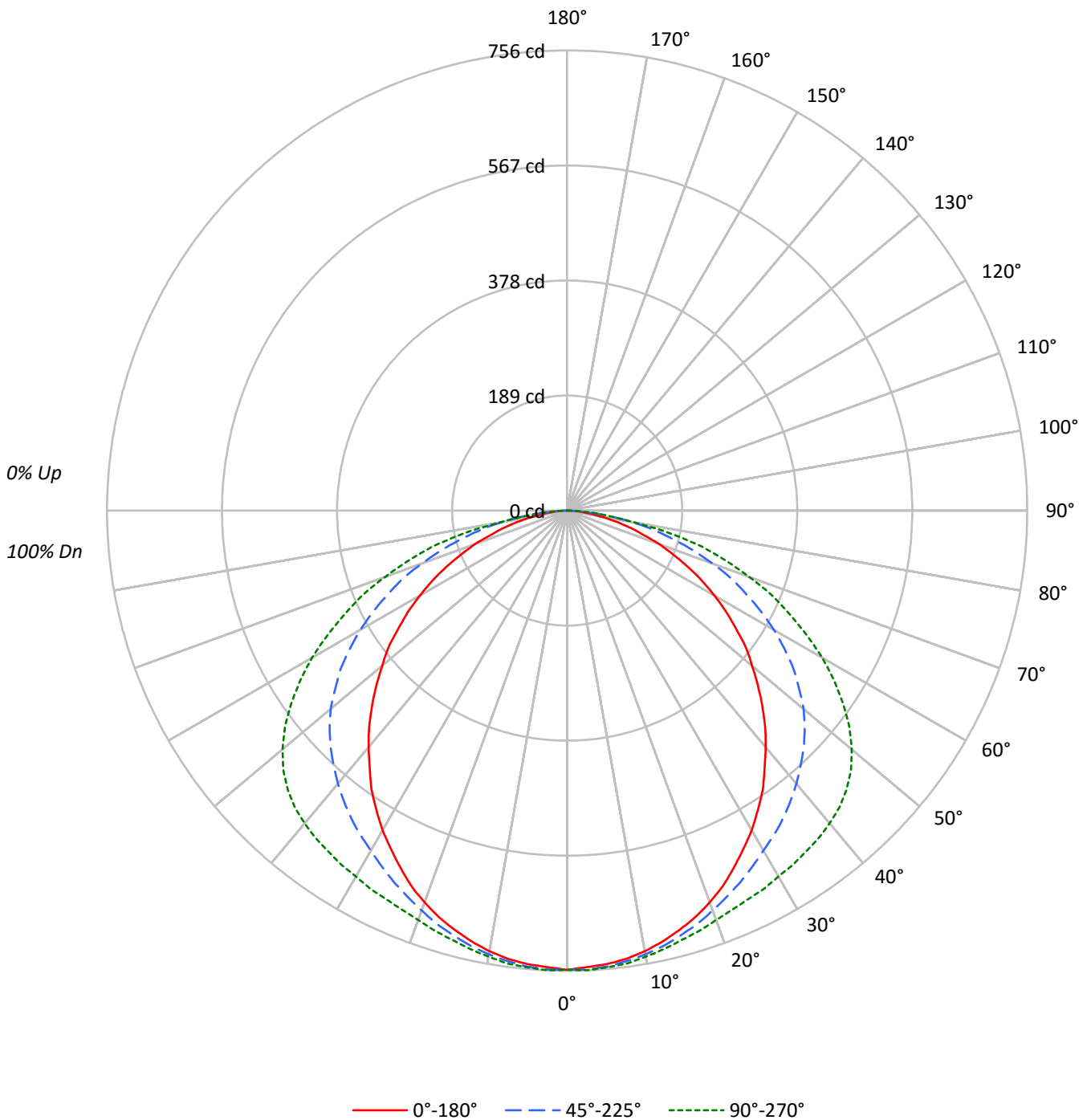
Lumens per Lamp: N/A
Luminaire Lumens: 2341.1 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2030	2030	2030
5°	2021	2031	2035
10°	2009	2023	2034
15°	1987	2012	2034
20°	1961	2002	2050
25°	1923	1999	2091
30°	1884	2004	2156
35°	1840	2030	2246
40°	1782	2058	2356
45°	1725	2092	2469
50°	1660	2124	2555
55°	1589	2132	2597
60°	1504	2113	2605
65°	1394	2066	2566
70°	1266	1995	2502
75°	1098	1861	2383
80°	859	1675	1736
85°	636	1152	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.0
10°-20°	203.9	8.7
20°-30°	311.5	13.3
30°-40°	387.9	16.6
40°-50°	424.1	18.1
50°-60°	402.2	17.2
60°-70°	315.1	13.5
70°-80°	182.2	7.8
80°-90°	42.7	1.8
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°	586.8	25.1
0°-40°	974.7	41.6
0°-60°	1801.0	76.9
0°-90°	2341.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	748	749	752	753	753	71
15°	713	716	722	729	730	201
25°	648	654	673	695	704	298
35°	560	573	618	666	684	349
45°	453	480	550	621	649	350
55°	339	380	454	527	554	303
65°	219	258	324	382	403	217
75°	106	134	179	214	229	112
85°	21	30	37	40	40	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.5	754.5	754.5	754.5	754.5
2.5°	750.6	751.9	754.5	755.8	755.8
5°	748.0	749.3	751.9	753.2	753.2
7.5°	742.9	744.2	746.7	749.3	750.6
10°	735.2	736.4	740.3	744.2	744.2
12.5°	724.9	727.4	732.6	736.4	737.7
15°	713.3	715.8	722.3	728.7	730.0
17.5°	700.4	704.3	712.0	719.7	723.6
20°	684.9	687.5	699.1	710.7	715.8
22.5°	668.2	672.1	686.2	703.0	709.4
25°	647.6	654.0	673.4	695.2	704.3
27.5°	627.0	636.0	659.2	688.8	700.4
30°	606.4	615.4	645.0	681.1	694.0
32.5°	583.2	594.8	632.2	673.4	690.1
35°	560.1	572.9	618.0	665.6	683.7
37.5°	533.0	549.8	602.5	656.6	678.5
40°	507.3	525.3	585.8	646.3	670.8
42.5°	481.5	502.1	567.8	634.7	661.8
45°	453.2	480.2	549.8	620.6	648.9
47.5°	424.9	455.8	529.2	603.8	632.2
50°	396.5	428.7	507.3	583.2	610.3
52.5°	370.8	403.0	480.2	556.2	584.5
55°	338.6	379.8	454.5	526.6	553.6
57.5°	310.3	347.6	423.6	494.4	520.1
60°	279.4	316.7	392.7	459.6	484.1
62.5°	249.8	285.8	359.2	422.3	444.2
65°	218.9	257.5	324.4	382.4	403.0
67.5°	188.0	224.0	292.3	342.5	364.4
70°	160.9	194.4	253.6	300.0	318.0
72.5°	130.0	162.2	216.3	257.5	272.9
75°	105.6	133.9	179.0	213.7	229.2
77.5°	79.8	106.9	144.2	167.4	173.8
80°	55.4	78.5	108.1	117.2	112.0
82.5°	36.0	54.1	69.5	72.1	70.8
85°	20.6	29.6	37.3	39.9	39.9
87.5°	9.0	11.6	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)