

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: P220164

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220164  
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-1L35-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: 1883.6 lumens  
Efficiency: N/A  
Efficacy: 114.9 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

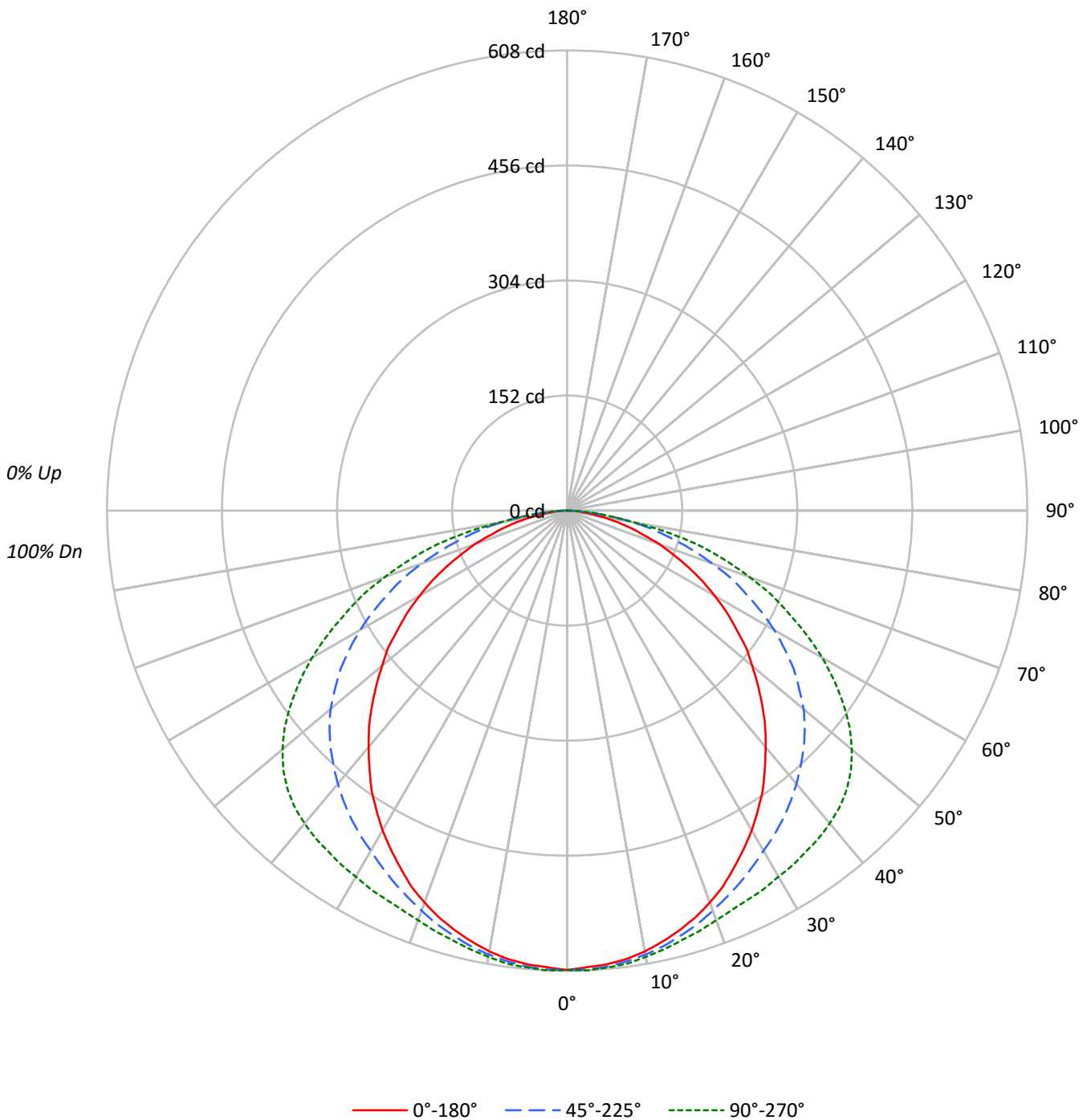
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1633	1633	1633
5°	1626	1634	1637
10°	1616	1627	1636
15°	1599	1619	1636
20°	1578	1611	1649
25°	1547	1609	1682
30°	1516	1613	1735
35°	1480	1633	1807
40°	1434	1656	1896
45°	1388	1683	1987
50°	1336	1708	2056
55°	1278	1716	2090
60°	1210	1701	2096
65°	1121	1662	2064
70°	1019	1606	2013
75°	883	1497	1917
80°	690	1348	1396
85°	513	926	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	3.0
10°-20°	164.1	8.7
20°-30°	250.6	13.3
30°-40°	312.1	16.6
40°-50°	341.2	18.1
50°-60°	323.6	17.2
60°-70°	253.5	13.5
70°-80°	146.6	7.8
80°-90°	34.4	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°	472.1	25.1
0°-40°	784.2	41.6
0°-60°	1449.1	76.9
0°-90°	1883.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	607	607	607	607	607	
5°	602	603	605	606	606	57
15°	574	576	581	586	587	162
25°	521	526	542	559	567	240
35°	451	461	497	536	550	281
45°	365	386	442	499	522	281
55°	272	306	366	424	445	244
65°	176	207	261	308	324	174
75°	85	108	144	172	184	90
85°	17	24	30	32	32	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	607.0	607.0	607.0	607.0	607.0
2.5°	603.9	605.0	607.0	608.1	608.1
5°	601.9	602.9	605.0	606.0	606.0
7.5°	597.7	598.8	600.8	602.9	603.9
10°	591.5	592.5	595.6	598.8	598.8
12.5°	583.2	585.3	589.4	592.5	593.6
15°	573.9	576.0	581.1	586.3	587.4
17.5°	563.5	566.6	572.9	579.1	582.2
20°	551.1	553.2	562.5	571.8	576.0
22.5°	537.6	540.7	552.1	565.6	570.8
25°	521.1	526.2	541.8	559.4	566.6
27.5°	504.5	511.7	530.4	554.2	563.5
30°	487.9	495.2	519.0	548.0	558.4
32.5°	469.3	478.6	508.6	541.8	555.2
35°	450.6	461.0	497.2	535.6	550.1
37.5°	428.9	442.3	484.8	528.3	545.9
40°	408.1	422.6	471.3	520.0	539.7
42.5°	387.4	404.0	456.8	510.7	532.5
45°	364.6	386.4	442.3	499.3	522.1
47.5°	341.8	366.7	425.8	485.8	508.6
50°	319.1	345.0	408.1	469.3	491.0
52.5°	298.3	324.2	386.4	447.5	470.3
55°	272.4	305.6	365.7	423.7	445.4
57.5°	249.7	279.7	340.8	397.8	418.5
60°	224.8	254.8	316.0	369.8	389.5
62.5°	201.0	230.0	289.0	339.8	357.4
65°	176.1	207.2	261.0	307.7	324.2
67.5°	151.2	180.2	235.2	275.6	293.2
70°	129.5	156.4	204.1	241.4	255.9
72.5°	104.6	130.5	174.0	207.2	219.6
75°	84.9	107.7	144.0	172.0	184.4
77.5°	64.2	86.0	116.0	134.7	139.8
80°	44.5	63.2	87.0	94.3	90.1
82.5°	29.0	43.5	55.9	58.0	57.0
85°	16.6	23.8	30.0	32.1	32.1
87.5°	7.3	9.3	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)