

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: P220130

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WL-1L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A FROSTED PRISMATIC ROUND LENS  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2019.5 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

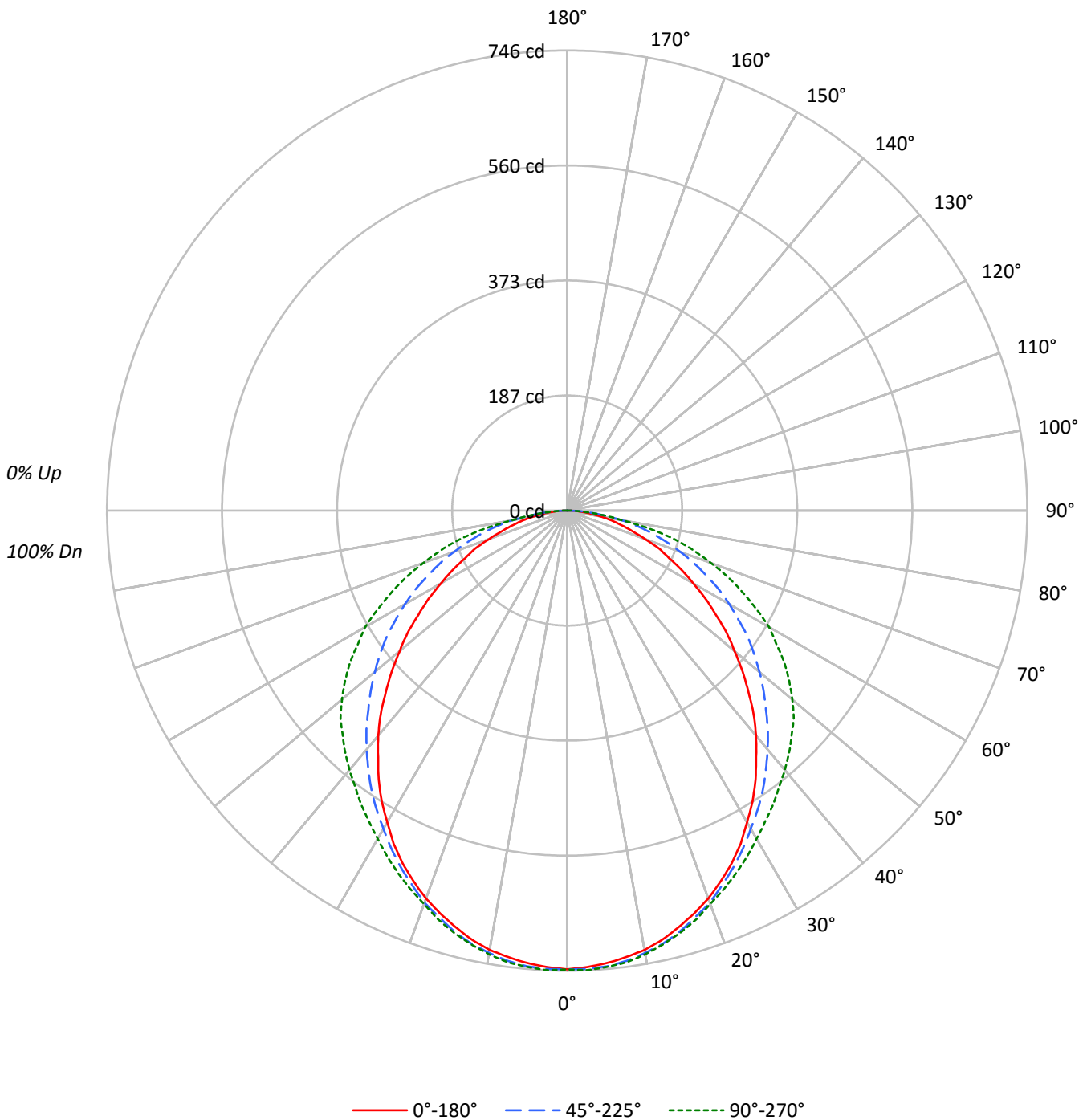
Input Watts (W): 16.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2002	2002	2002
5°	1989	2004	2006
10°	1976	1990	1996
15°	1948	1968	1974
20°	1916	1937	1943
25°	1873	1895	1926
30°	1812	1851	1909
35°	1749	1817	1913
40°	1674	1776	1929
45°	1581	1735	1959
50°	1483	1704	1995
55°	1380	1677	2017
60°	1271	1633	2035
65°	1161	1583	1999
70°	1060	1532	1948
75°	948	1475	1885
80°	835	1381	1413
85°	735	1087	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	3.5
10°-20°	198.7	9.8
20°-30°	294.3	14.6
30°-40°	346.9	17.2
40°-50°	355.8	17.6
50°-60°	321.6	15.9
60°-70°	247.3	12.2
70°-80°	146.6	7.3
80°-90°	38.1	1.9
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°	563.2	27.9
0°-40°	910.2	45.1
0°-60°	1587.5	78.6
0°-90°	2019.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	736	739	742	743	743	70
15°	699	701	706	709	709	197
25°	631	633	638	645	648	290
35°	532	536	553	573	582	332
45°	415	424	456	497	515	321
55°	294	315	357	407	430	264
65°	182	205	249	296	314	183
75°	91	109	142	172	181	98
85°	24	29	35	37	34	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	743.8	743.8	743.8	743.8	743.8
2.5°	740.7	741.7	743.8	745.8	745.8
5°	736.5	738.6	741.7	742.7	742.7
7.5°	730.3	732.4	736.5	737.6	738.6
10°	723.1	724.1	728.2	730.3	730.3
12.5°	712.7	714.8	718.9	721.0	720.0
15°	699.2	701.3	706.5	708.6	708.6
17.5°	684.7	686.8	690.9	694.1	695.1
20°	669.2	670.2	676.4	678.5	678.5
22.5°	650.5	653.7	656.8	663.0	664.0
25°	630.9	632.9	638.1	645.4	648.5
27.5°	609.1	610.1	617.4	628.8	631.9
30°	583.2	587.4	595.6	610.1	614.3
32.5°	559.4	562.5	574.9	591.5	597.7
35°	532.5	535.6	553.2	572.9	582.2
37.5°	503.4	507.6	529.3	553.2	564.6
40°	476.5	481.7	505.5	535.6	549.0
42.5°	447.5	452.7	481.7	515.9	532.5
45°	415.4	423.7	455.8	497.2	514.8
47.5°	385.4	395.7	432.0	477.6	498.3
50°	354.3	368.8	407.1	456.8	476.5
52.5°	326.3	339.8	382.2	433.0	453.7
55°	294.2	314.9	357.4	407.1	429.9
57.5°	266.2	284.9	329.4	382.2	401.9
60°	236.2	256.9	303.5	354.3	378.1
62.5°	210.3	230.0	277.6	326.3	346.0
65°	182.3	205.1	248.6	296.3	313.9
67.5°	161.6	177.1	222.7	267.3	282.8
70°	134.7	153.3	194.7	235.1	247.6
72.5°	110.8	130.5	168.9	204.1	215.5
75°	91.2	108.8	141.9	172.0	181.3
77.5°	73.5	88.1	117.1	137.8	139.8
80°	53.9	66.3	89.1	94.3	91.2
82.5°	38.3	46.6	59.0	62.2	59.0
85°	23.8	29.0	35.2	37.3	34.2
87.5°	11.4	11.4	14.5	14.5	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)