

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: P220021

Luminaire Tested: **Z3-WG-3L35-LD5-UNV-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-3L35-LD5-UNV-14  
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3620.1 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

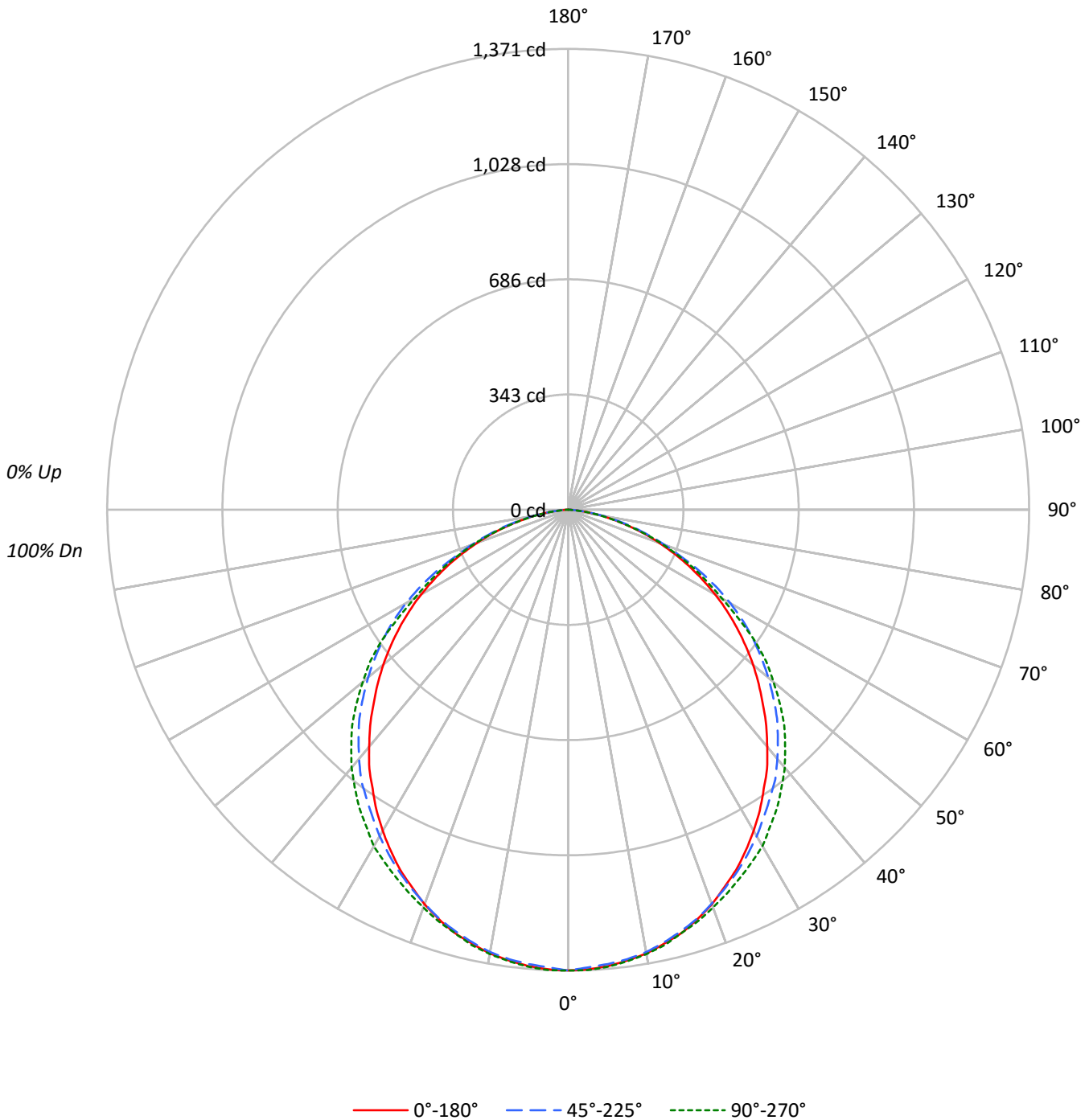
Input Watts (W): 33.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	3689	3689	3689
5°	3681	3665	3687
10°	3663	3652	3668
15°	3633	3616	3633
20°	3577	3572	3606
25°	3510	3529	3589
30°	3428	3484	3592
35°	3331	3438	3557
40°	3234	3398	3519
45°	3118	3342	3457
50°	3005	3252	3337
55°	2873	3149	3168
60°	2718	3002	2838
65°	2518	2737	2621
70°	2266	2393	2330
75°	1918	2045	1940
80°	1508	1571	1446
85°	1000	939	750



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	3.6
10°-20°	367.3	10.1
20°-30°	549.8	15.2
30°-40°	656.1	18.1
40°-50°	670.1	18.5
50°-60°	587.0	16.2
60°-70°	412.6	11.4
70°-80°	207.2	5.7
80°-90°	40.7	1.1
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°	1046.4	28.9
0°-40°	1702.5	47.0
0°-60°	2959.6	81.8
0°-90°	3620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1363	1363	1357	1365	1365	129
15°	1304	1302	1298	1306	1304	367
25°	1182	1184	1188	1205	1209	544
35°	1014	1022	1046	1075	1083	635
45°	819	836	878	902	908	633
55°	612	643	671	681	675	547
65°	395	420	430	414	412	391
75°	184	203	197	191	187	198
85°	32	34	30	26	24	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1370.9	1370.9	1370.9	1370.9	1370.9
2.5°	1368.8	1368.8	1362.8	1370.9	1370.9
5°	1362.8	1362.8	1356.7	1364.8	1364.8
7.5°	1352.6	1352.6	1348.6	1354.7	1354.7
10°	1340.5	1340.5	1336.4	1342.5	1342.5
12.5°	1322.2	1322.2	1318.1	1324.2	1326.3
15°	1304.0	1301.9	1297.9	1306.0	1304.0
17.5°	1277.6	1277.6	1275.6	1283.7	1283.7
20°	1249.2	1251.2	1247.2	1257.3	1259.3
22.5°	1214.7	1216.8	1218.8	1230.9	1235.0
25°	1182.3	1184.3	1188.4	1204.6	1208.6
27.5°	1143.7	1147.8	1155.9	1174.2	1182.3
30°	1103.2	1109.3	1121.4	1145.8	1155.9
32.5°	1060.6	1068.7	1082.9	1113.3	1117.4
35°	1014.0	1022.1	1046.4	1074.8	1082.9
37.5°	971.4	979.5	1011.9	1036.3	1042.4
40°	920.7	932.8	967.3	993.7	1001.8
42.5°	872.0	884.2	922.7	949.1	955.1
45°	819.3	835.5	878.1	902.4	908.5
47.5°	768.6	786.8	827.4	849.7	853.8
50°	717.9	738.2	776.7	799.0	797.0
52.5°	665.2	687.5	724.0	742.2	742.2
55°	612.4	642.9	671.2	681.4	675.3
57.5°	559.7	586.1	616.5	616.5	598.2
60°	505.0	531.3	557.7	541.5	527.3
62.5°	450.2	476.6	494.8	470.5	466.4
65°	395.4	419.8	429.9	413.7	411.7
67.5°	340.7	365.0	361.0	358.9	350.8
70°	288.0	310.3	304.2	300.1	296.1
72.5°	237.3	257.5	249.4	243.4	241.3
75°	184.5	202.8	196.7	190.6	186.6
77.5°	137.9	150.1	148.0	142.0	137.9
80°	97.3	105.5	101.4	97.3	93.3
82.5°	58.8	66.9	62.9	56.8	54.8
85°	32.4	34.5	30.4	26.4	24.3
87.5°	12.2	10.1	8.1	8.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)