

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: P220160

Luminaire Tested: **Z3-WD-3L30-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220160  
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-3L30-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2706.8 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

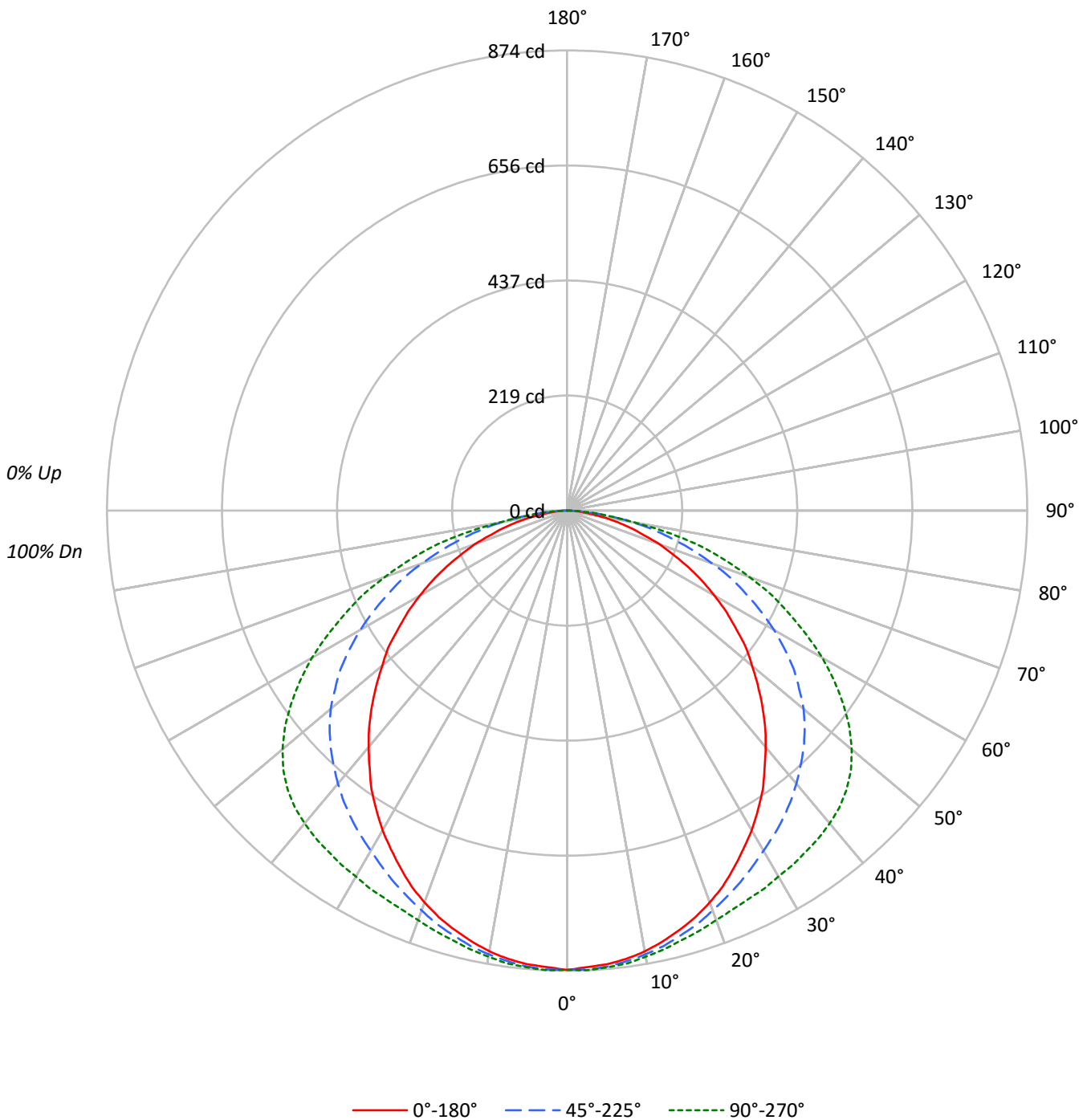
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2347	2347	2347
5°	2336	2348	2352
10°	2323	2339	2351
15°	2298	2327	2352
20°	2268	2315	2370
25°	2223	2312	2418
30°	2179	2317	2493
35°	2127	2347	2597
40°	2060	2379	2725
45°	1994	2419	2855
50°	1919	2455	2954
55°	1837	2465	3003
60°	1738	2443	3012
65°	1612	2388	2967
70°	1464	2308	2893
75°	1269	2151	2755
80°	992	1937	2007
85°	735	1334	1423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.0
10°-20°	235.8	8.7
20°-30°	360.1	13.3
30°-40°	448.5	16.6
40°-50°	490.4	18.1
50°-60°	465.1	17.2
60°-70°	364.3	13.5
70°-80°	210.7	7.8
80°-90°	49.4	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°	678.4	25.1
0°-40°	1127.0	41.6
0°-60°	2082.4	76.9
0°-90°	2706.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2706.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	865	866	869	871	871	82
15°	825	828	835	843	844	233
25°	749	756	779	804	814	345
35°	648	662	714	770	790	404
45°	524	555	636	718	750	404
55°	392	439	526	609	640	351
65°	253	298	375	442	466	251
75°	122	155	207	247	265	129
85°	24	34	43	46	46	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.3	872.3	872.3	872.3	872.3
2.5°	867.9	869.4	872.3	873.8	873.8
5°	864.9	866.4	869.4	870.8	870.8
7.5°	858.9	860.4	863.4	866.4	867.9
10°	850.0	851.5	856.0	860.4	860.4
12.5°	838.1	841.1	847.0	851.5	853.0
15°	824.7	827.7	835.1	842.6	844.1
17.5°	809.8	814.3	823.2	832.1	836.6
20°	791.9	794.9	808.3	821.7	827.7
22.5°	772.6	777.1	793.4	812.8	820.2
25°	748.8	756.2	778.6	803.9	814.3
27.5°	725.0	735.4	762.2	796.4	809.8
30°	701.1	711.6	745.8	787.5	802.4
32.5°	674.3	687.7	730.9	778.6	797.9
35°	647.6	662.4	714.5	769.6	790.5
37.5°	616.3	635.6	696.7	759.2	784.5
40°	586.5	607.4	677.3	747.3	775.6
42.5°	556.7	580.6	656.5	733.9	765.2
45°	524.0	555.3	635.6	717.5	750.3
47.5°	491.2	527.0	611.8	698.2	730.9
50°	458.5	495.7	586.5	674.3	705.6
52.5°	428.7	465.9	555.3	643.1	675.8
55°	391.5	439.1	525.5	608.8	640.1
57.5°	358.8	401.9	489.8	571.6	601.4
60°	323.0	366.2	454.0	531.4	559.7
62.5°	288.8	330.5	415.3	488.3	513.6
65°	253.1	297.7	375.1	442.1	465.9
67.5°	217.3	259.0	337.9	396.0	421.3
70°	186.1	224.8	293.3	346.8	367.7
72.5°	150.4	187.6	250.1	297.7	315.6
75°	122.1	154.8	206.9	247.1	265.0
77.5°	92.3	123.6	166.7	193.5	201.0
80°	64.0	90.8	125.0	135.5	129.5
82.5°	41.7	62.5	80.4	83.4	81.9
85°	23.8	34.2	43.2	46.1	46.1
87.5°	10.4	13.4	14.9	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)