

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: P220171

Luminaire Tested: **Z3-WD-2L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220171
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-2L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

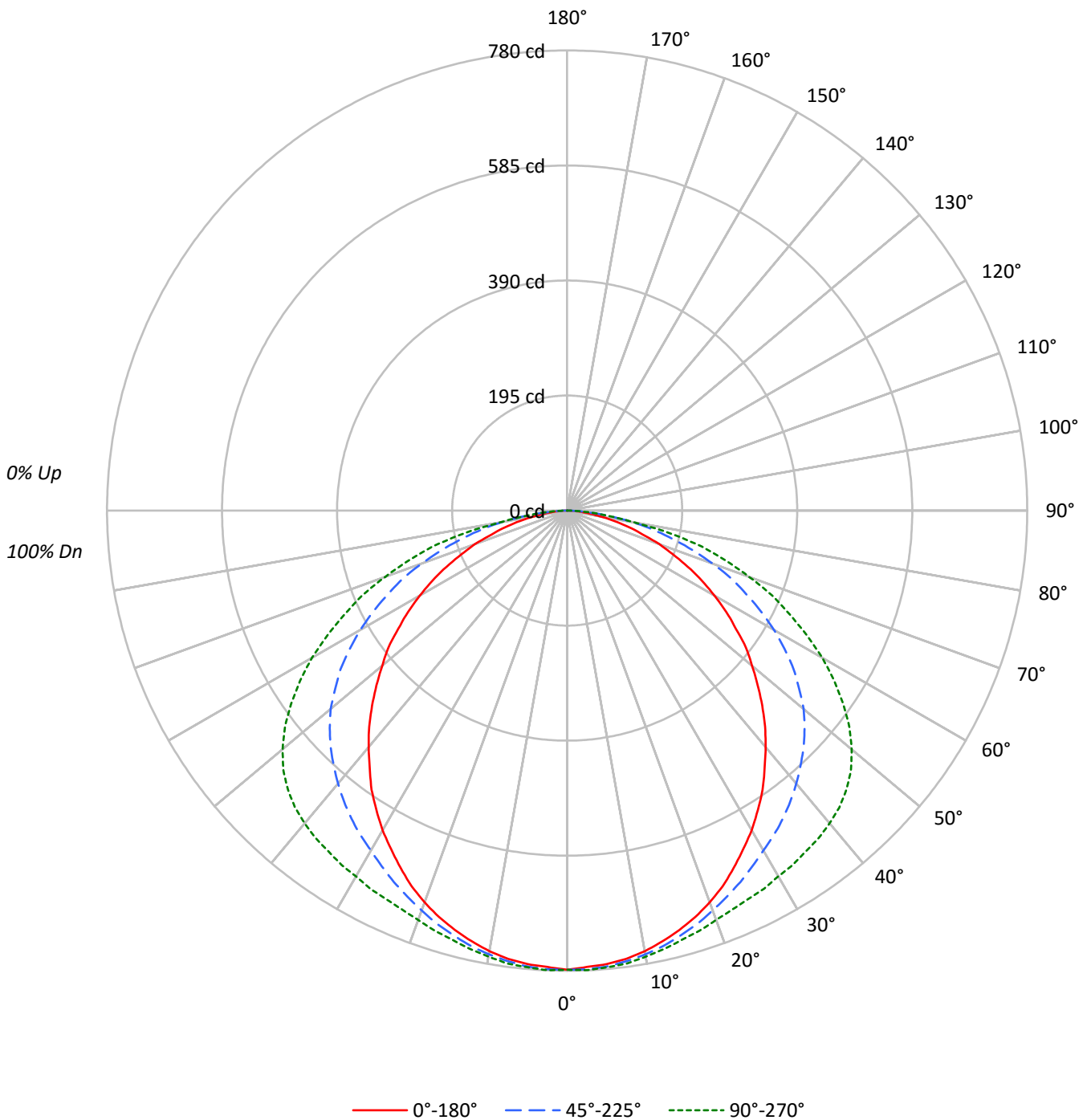
Lumens per Lamp: N/A
Luminaire Lumens: 2415.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2094	2094	2094
5°	2085	2095	2099
10°	2072	2087	2098
15°	2050	2076	2098
20°	2023	2065	2115
25°	1984	2063	2157
30°	1944	2068	2224
35°	1898	2094	2317
40°	1838	2123	2431
45°	1779	2158	2547
50°	1713	2191	2636
55°	1639	2200	2679
60°	1551	2180	2688
65°	1438	2131	2647
70°	1306	2059	2581
75°	1132	1919	2458
80°	885	1729	1791
85°	658	1189	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.0
10°-20°	210.4	8.7
20°-30°	321.3	13.3
30°-40°	400.2	16.6
40°-50°	437.5	18.1
50°-60°	415.0	17.2
60°-70°	325.1	13.5
70°-80°	188.0	7.8
80°-90°	44.1	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°	605.3	25.1
0°-40°	1005.5	41.6
0°-60°	1858.0	76.9
0°-90°	2415.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	772	773	776	777	777	73
15°	736	738	745	752	753	208
25°	668	675	695	717	726	308
35°	578	591	638	687	705	361
45°	468	495	567	640	669	361
55°	349	392	469	543	571	313
65°	226	266	335	394	416	224
75°	109	138	185	220	236	115
85°	21	30	38	41	41	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	778.3	778.3	778.3	778.3	778.3
2.5°	774.3	775.7	778.3	779.7	779.7
5°	771.7	773.0	775.7	777.0	777.0
7.5°	766.4	767.7	770.4	773.0	774.3
10°	758.4	759.7	763.7	767.7	767.7
12.5°	747.8	750.4	755.8	759.7	761.1
15°	735.8	738.5	745.1	751.8	753.1
17.5°	722.5	726.5	734.5	742.5	746.5
20°	706.6	709.3	721.2	733.2	738.5
22.5°	689.3	693.3	707.9	725.2	731.8
25°	668.1	674.7	694.7	717.2	726.5
27.5°	646.8	656.1	680.0	710.6	722.5
30°	625.6	634.9	665.4	702.6	715.9
32.5°	601.7	613.6	652.2	694.7	711.9
35°	577.8	591.1	637.5	686.7	705.3
37.5°	549.9	567.1	621.6	677.4	700.0
40°	523.3	541.9	604.3	666.8	692.0
42.5°	496.8	518.0	585.7	654.8	682.7
45°	467.5	495.4	567.1	640.2	669.4
47.5°	438.3	470.2	545.9	622.9	652.2
50°	409.1	442.3	523.3	601.7	629.6
52.5°	382.5	415.7	495.4	573.8	603.0
55°	349.3	391.8	468.9	543.2	571.1
57.5°	320.1	358.6	437.0	510.0	536.6
60°	288.2	326.7	405.1	474.2	499.4
62.5°	257.7	294.9	370.6	435.7	458.2
65°	225.8	265.6	334.7	394.5	415.7
67.5°	193.9	231.1	301.5	353.3	375.9
70°	166.0	200.6	261.7	309.5	328.1
72.5°	134.1	167.4	223.1	265.6	281.6
75°	108.9	138.1	184.6	220.5	236.4
77.5°	82.3	110.2	148.8	172.7	179.3
80°	57.1	81.0	111.6	120.9	115.6
82.5°	37.2	55.8	71.7	74.4	73.1
85°	21.3	30.5	38.5	41.2	41.2
87.5°	9.3	12.0	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)