

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: P220041

Luminaire Tested: **Z3-WD-4L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-4L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4737.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

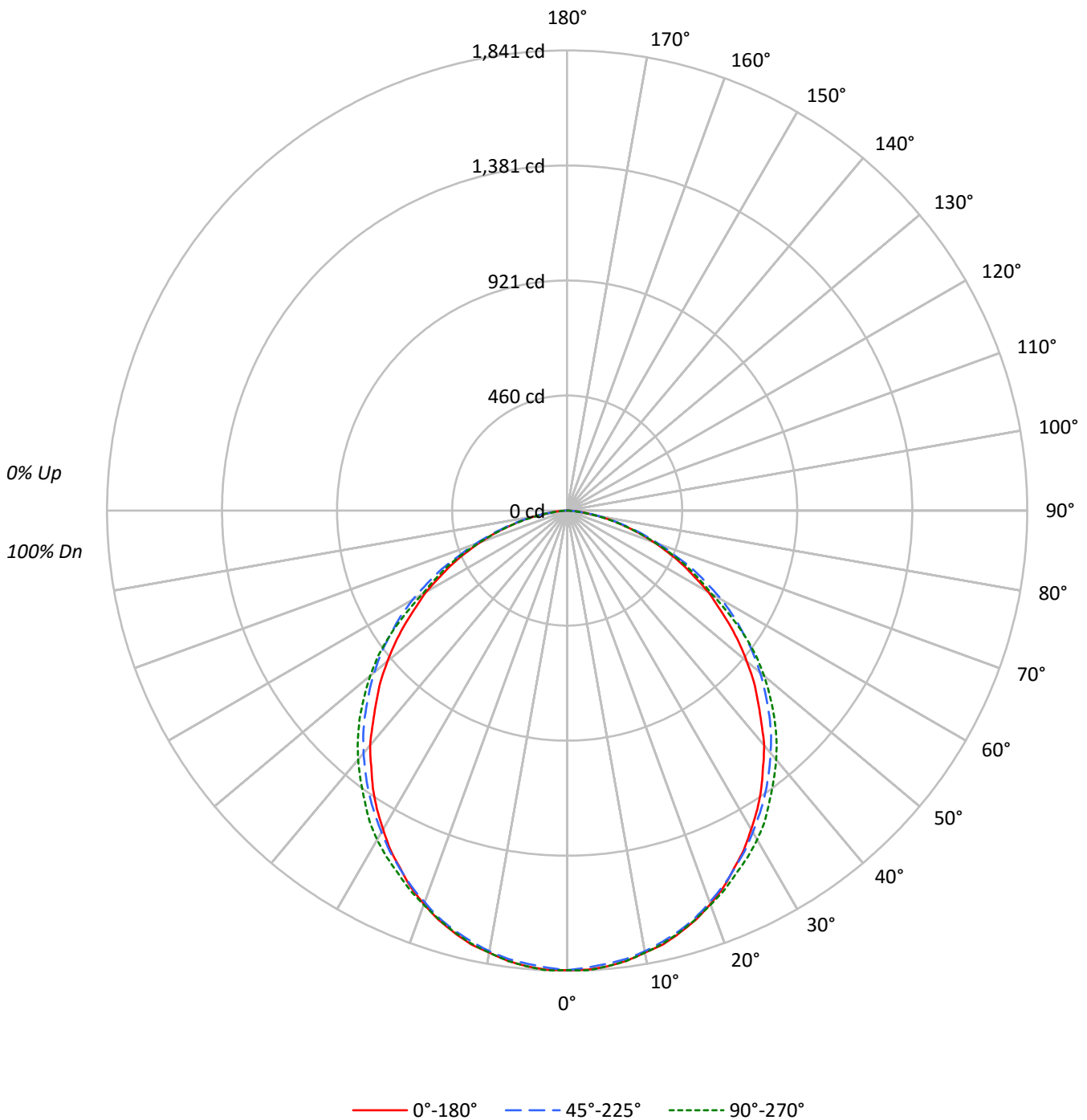
Input Watts (W): 43.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4947	4947	4947
5°	4945	4916	4945
10°	4907	4892	4907
15°	4869	4846	4861
20°	4798	4775	4806
25°	4689	4697	4753
30°	4575	4617	4725
35°	4451	4538	4644
40°	4308	4449	4572
45°	4109	4342	4464
50°	3926	4217	4307
55°	3711	4049	4049
60°	3509	3840	3596
65°	3233	3522	3352
70°	2902	3069	2943
75°	2472	2612	2472
80°	1946	2029	1905
85°	1238	1238	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	3.7
10°-20°	491.6	10.4
20°-30°	731.9	15.4
30°-40°	865.3	18.3
40°-50°	873.8	18.4
50°-60°	755.4	15.9
60°-70°	527.3	11.1
70°-80°	266.0	5.6
80°-90°	53.0	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°	1397.0	29.5
0°-40°	2262.3	47.8
0°-60°	3891.4	82.1
0°-90°	4737.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4737.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1830	1828	1820	1830	1830	174
15°	1748	1745	1740	1745	1745	493
25°	1579	1582	1582	1598	1601	728
35°	1355	1360	1382	1408	1414	846
45°	1080	1096	1141	1170	1173	834
55°	791	826	863	874	863	708
65°	508	540	553	524	526	502
75°	238	262	251	243	238	256
85°	40	45	40	35	32	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.5	1838.5	1838.5	1838.5	1838.5
2.5°	1838.5	1838.5	1830.5	1841.2	1841.2
5°	1830.5	1827.8	1819.8	1830.5	1830.5
7.5°	1817.1	1814.4	1809.1	1817.1	1817.1
10°	1795.7	1795.7	1790.4	1798.4	1795.7
12.5°	1777.0	1774.3	1766.3	1774.3	1774.3
15°	1747.6	1745.0	1739.6	1745.0	1745.0
17.5°	1715.6	1710.2	1707.5	1712.9	1712.9
20°	1675.5	1672.8	1667.5	1678.1	1678.1
22.5°	1632.7	1627.4	1627.4	1638.1	1643.4
25°	1579.3	1582.0	1582.0	1598.0	1600.7
27.5°	1531.2	1531.2	1536.5	1555.2	1563.2
30°	1472.4	1477.7	1485.8	1509.8	1520.5
32.5°	1416.3	1424.3	1435.0	1464.4	1472.4
35°	1354.8	1360.2	1381.5	1408.3	1413.6
37.5°	1288.0	1293.4	1325.4	1354.8	1357.5
40°	1226.5	1229.2	1266.6	1293.4	1301.4
42.5°	1149.1	1167.8	1207.8	1234.6	1239.9
45°	1079.6	1095.6	1141.0	1170.4	1173.1
47.5°	1012.8	1028.8	1074.2	1098.3	1101.0
50°	937.9	959.3	1007.4	1026.1	1028.8
52.5°	865.8	892.5	937.9	954.0	951.3
55°	791.0	825.7	863.1	873.8	863.1
57.5°	716.2	756.2	791.0	788.3	764.3
60°	652.0	681.4	713.5	689.4	668.1
62.5°	574.5	611.9	630.6	598.6	595.9
65°	507.7	539.8	553.1	523.8	526.4
67.5°	435.6	467.6	462.3	454.3	448.9
70°	368.8	400.8	390.1	379.5	374.1
72.5°	304.6	331.4	320.7	312.6	304.6
75°	237.8	261.9	251.2	243.2	237.8
77.5°	181.7	195.1	189.7	181.7	176.4
80°	125.6	139.0	130.9	122.9	122.9
82.5°	77.5	88.2	80.2	74.8	72.1
85°	40.1	45.4	40.1	34.7	32.1
87.5°	16.0	16.0	10.7	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)