

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: P220018

Luminaire Tested: **Z3-WG-5L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220018
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-5L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5302.6 lumens
Efficiency: N/A
Efficacy: 98.2 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

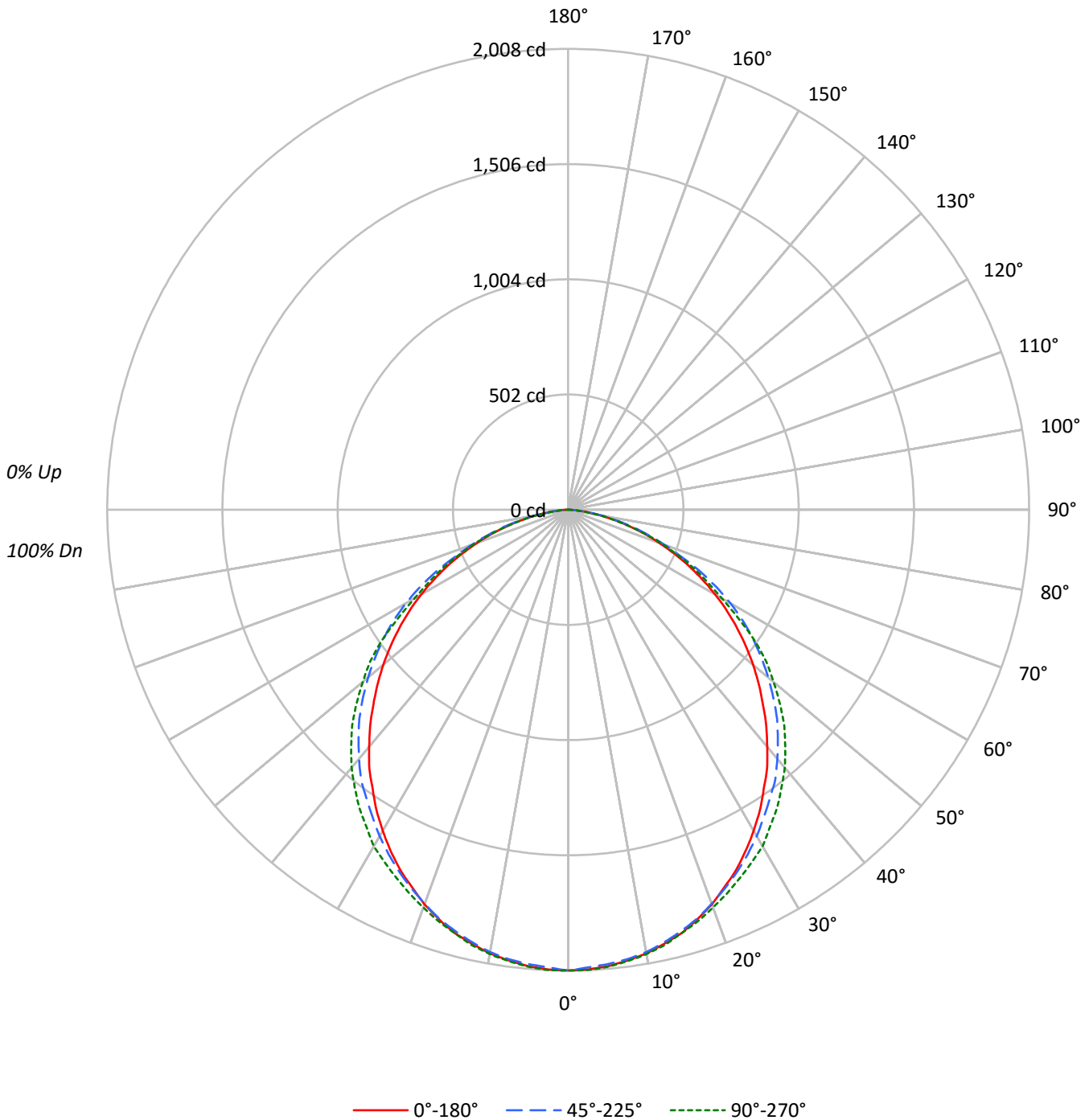
Input Watts (W): 54
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5403	5403	5403
5°	5392	5368	5400
10°	5365	5349	5373
15°	5321	5296	5321
20°	5240	5231	5283
25°	5142	5168	5257
30°	5021	5104	5261
35°	4879	5035	5211
40°	4737	4977	5155
45°	4567	4895	5065
50°	4402	4763	4887
55°	4209	4613	4641
60°	3981	4397	4156
65°	3688	4010	3840
70°	3319	3506	3412
75°	2810	2995	2842
80°	2210	2301	2117
85°	1467	1377	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.4	3.6
10°-20°	538.0	10.1
20°-30°	805.3	15.2
30°-40°	961.0	18.1
40°-50°	981.6	18.5
50°-60°	859.8	16.2
60°-70°	604.4	11.4
70°-80°	303.6	5.7
80°-90°	59.6	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°	1532.7	28.9
0°-40°	2493.7	47.0
0°-60°	4335.2	81.8
0°-90°	5302.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5302.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	1996	1996	1987	1999	1999	189
15°	1910	1907	1901	1913	1910	538
25°	1732	1735	1741	1764	1770	797
35°	1485	1497	1533	1574	1586	930
45°	1200	1224	1286	1322	1331	927
55°	897	942	983	998	989	802
65°	579	615	630	606	603	573
75°	270	297	288	279	273	290
85°	48	50	45	39	36	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.0	2008.0	2008.0	2008.0	2008.0
2.5°	2005.1	2005.1	1996.2	2008.0	2008.0
5°	1996.2	1996.2	1987.3	1999.1	1999.1
7.5°	1981.3	1981.3	1975.4	1984.3	1984.3
10°	1963.5	1963.5	1957.5	1966.5	1966.5
12.5°	1936.8	1936.8	1930.8	1939.7	1942.7
15°	1910.0	1907.1	1901.1	1913.0	1910.0
17.5°	1871.4	1871.4	1868.4	1880.3	1880.3
20°	1829.8	1832.8	1826.8	1841.7	1844.7
22.5°	1779.3	1782.3	1785.3	1803.1	1809.0
25°	1731.8	1734.8	1740.7	1764.5	1770.4
27.5°	1675.4	1681.3	1693.2	1719.9	1731.8
30°	1615.9	1624.9	1642.7	1678.3	1693.2
32.5°	1553.6	1565.4	1586.2	1630.8	1636.7
35°	1485.2	1497.1	1532.8	1574.4	1586.2
37.5°	1422.9	1434.7	1482.3	1517.9	1526.8
40°	1348.6	1366.4	1416.9	1455.5	1467.4
42.5°	1277.3	1295.1	1351.6	1390.2	1399.1
45°	1200.1	1223.8	1286.2	1321.9	1330.8
47.5°	1125.8	1152.5	1212.0	1244.6	1250.6
50°	1051.6	1081.3	1137.7	1170.4	1167.4
52.5°	974.3	1007.0	1060.5	1087.2	1087.2
55°	897.1	941.6	983.2	998.1	989.2
57.5°	819.9	858.5	903.0	903.0	876.3
60°	739.7	778.3	816.9	793.1	772.3
62.5°	659.4	698.1	724.8	689.2	683.2
65°	579.2	614.9	629.7	606.0	603.0
67.5°	499.0	534.7	528.7	525.8	513.9
70°	421.8	454.5	445.6	439.6	433.7
72.5°	347.5	377.3	365.4	356.5	353.5
75°	270.3	297.0	288.1	279.2	273.3
77.5°	202.0	219.8	216.8	207.9	202.0
80°	142.6	154.5	148.5	142.6	136.6
82.5°	86.1	98.0	92.1	83.2	80.2
85°	47.5	50.5	44.6	38.6	35.6
87.5°	17.8	14.9	11.9	11.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)