

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: P220032

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220032
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-5L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

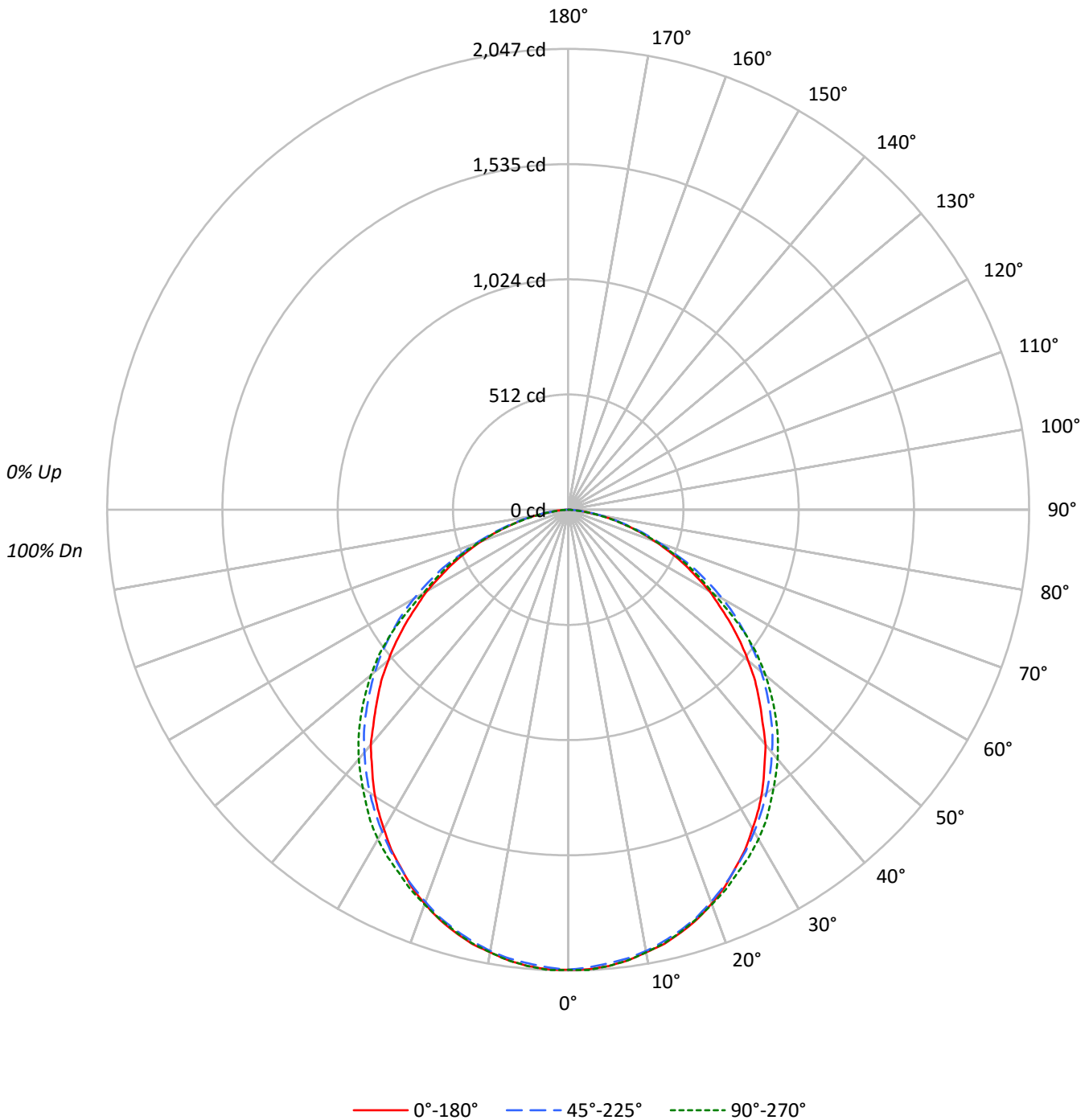
Lumens per Lamp: N/A
Luminaire Lumens: 5266.5 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5500	5500	5500
5°	5497	5464	5497
10°	5455	5438	5455
15°	5412	5387	5404
20°	5334	5308	5342
25°	5213	5221	5283
30°	5086	5132	5252
35°	4947	5045	5162
40°	4790	4946	5082
45°	4567	4827	4963
50°	4365	4688	4788
55°	4125	4502	4502
60°	3901	4268	3997
65°	3594	3915	3726
70°	3225	3412	3272
75°	2749	2903	2749
80°	2163	2256	2117
85°	1377	1377	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	3.7
10°-20°	546.5	10.4
20°-30°	813.6	15.4
30°-40°	961.8	18.3
40°-50°	971.3	18.4
50°-60°	839.7	15.9
60°-70°	586.1	11.1
70°-80°	295.7	5.6
80°-90°	58.9	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°	1552.9	29.5
0°-40°	2514.8	47.8
0°-60°	4325.8	82.1
0°-90°	5266.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2044	2044	2044	2044	2044	
5°	2035	2032	2023	2035	2035	193
15°	1943	1940	1934	1940	1940	548
25°	1756	1758	1758	1776	1779	810
35°	1506	1512	1536	1565	1571	941
45°	1200	1218	1268	1301	1304	927
55°	879	918	960	971	960	787
65°	564	600	615	582	585	558
75°	264	291	279	270	264	285
85°	45	50	45	39	36	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2043.7	2043.7	2043.7	2043.7	2043.7
2.5°	2043.7	2043.7	2034.8	2046.7	2046.7
5°	2034.8	2031.8	2022.9	2034.8	2034.8
7.5°	2019.9	2017.0	2011.0	2019.9	2019.9
10°	1996.2	1996.2	1990.2	1999.1	1996.2
12.5°	1975.4	1972.4	1963.5	1972.4	1972.4
15°	1942.7	1939.7	1933.8	1939.7	1939.7
17.5°	1907.0	1901.1	1898.1	1904.1	1904.1
20°	1862.5	1859.5	1853.6	1865.5	1865.5
22.5°	1815.0	1809.0	1809.0	1820.9	1826.8
25°	1755.6	1758.5	1758.5	1776.3	1779.3
27.5°	1702.1	1702.1	1708.0	1728.8	1737.7
30°	1636.7	1642.7	1651.6	1678.3	1690.2
32.5°	1574.4	1583.3	1595.1	1627.8	1636.7
35°	1506.0	1512.0	1535.7	1565.4	1571.4
37.5°	1431.8	1437.7	1473.4	1506.0	1509.0
40°	1363.5	1366.4	1408.0	1437.7	1446.6
42.5°	1277.3	1298.1	1342.7	1372.4	1378.3
45°	1200.1	1217.9	1268.4	1301.1	1304.0
47.5°	1125.8	1143.6	1194.1	1220.9	1223.8
50°	1042.6	1066.4	1119.9	1140.7	1143.6
52.5°	962.4	992.1	1042.6	1060.5	1057.5
55°	879.3	917.9	959.5	971.3	959.5
57.5°	796.1	840.6	879.3	876.3	849.6
60°	724.8	757.5	793.1	766.4	742.6
62.5°	638.7	680.2	701.0	665.4	662.4
65°	564.4	600.0	614.9	582.2	585.2
67.5°	484.2	519.8	513.9	505.0	499.0
70°	409.9	445.6	433.7	421.8	415.9
72.5°	338.6	368.3	356.5	347.5	338.6
75°	264.4	291.1	279.2	270.3	264.4
77.5°	202.0	216.8	210.9	202.0	196.1
80°	139.6	154.5	145.6	136.6	136.6
82.5°	86.1	98.0	89.1	83.2	80.2
85°	44.6	50.5	44.6	38.6	35.6
87.5°	17.8	17.8	11.9	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)