

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: P220271

Luminaire Tested: **Z3-WG-5L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-5L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6389.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

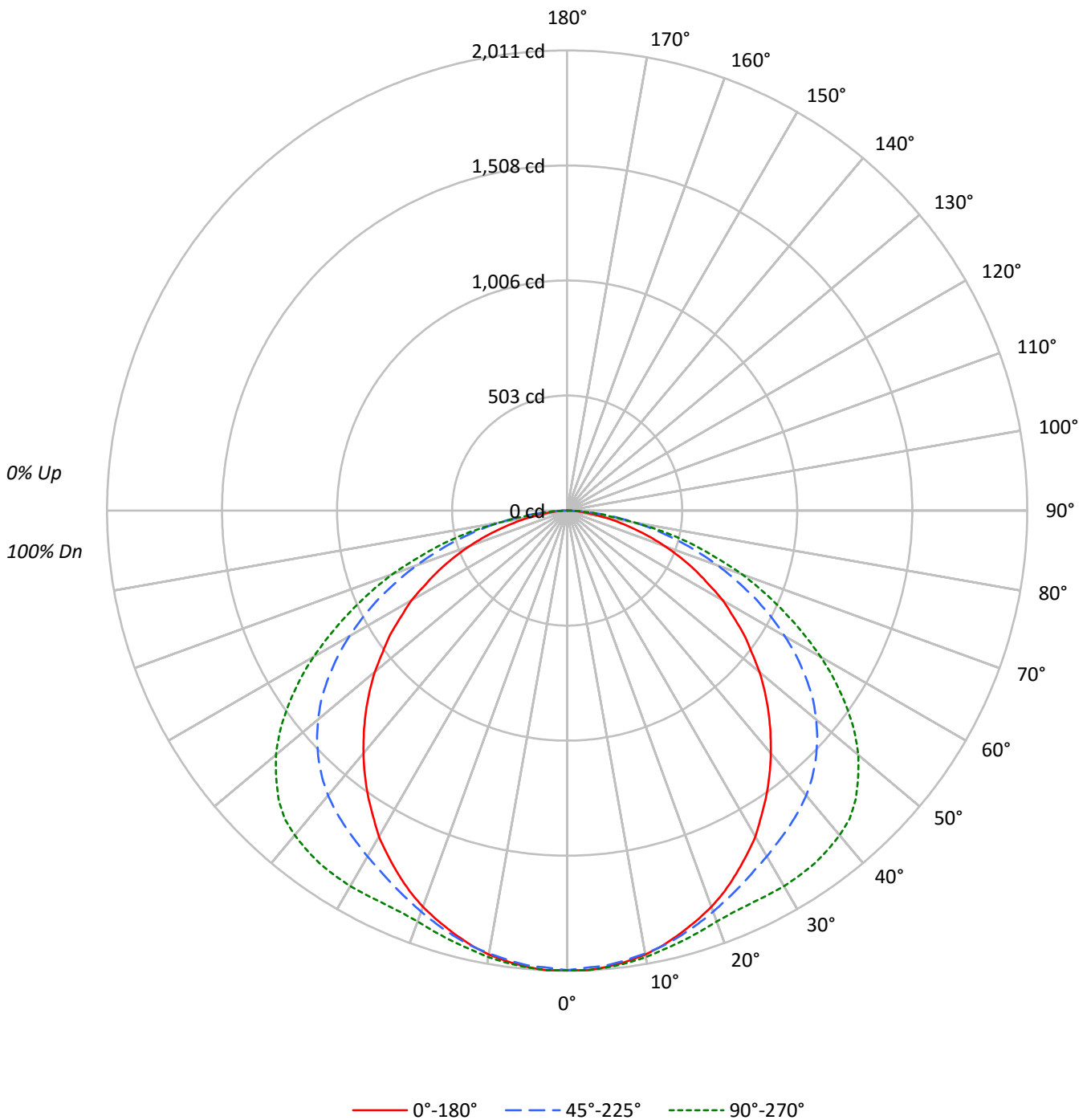
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2702	2702	2702
5°	2703	2694	2707
10°	2691	2685	2707
15°	2665	2678	2712
20°	2639	2671	2736
25°	2598	2679	2813
30°	2557	2712	2944
35°	2495	2774	3094
40°	2433	2855	3253
45°	2368	2924	3395
50°	2296	2975	3478
55°	2212	2989	3494
60°	2117	2958	3447
65°	1970	2880	3327
70°	1784	2755	3192
75°	1520	2569	2934
80°	1230	2318	2266
85°	840	1644	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	3.0
10°-20°	544.4	8.5
20°-30°	838.4	13.1
30°-40°	1061.4	16.6
40°-50°	1173.4	18.4
50°-60°	1111.5	17.4
60°-70°	861.0	13.5
70°-80°	490.6	7.7
80°-90°	118.9	1.9
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°	1572.7	24.6
0°-40°	2634.2	41.2
0°-60°	4919.1	77.0
0°-90°	6389.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6389.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2002	1999	1995	2002	2004	190
15°	1913	1918	1922	1940	1947	540
25°	1750	1764	1804	1870	1895	806
35°	1519	1557	1689	1832	1884	950
45°	1244	1324	1537	1718	1784	960
55°	943	1056	1274	1437	1489	841
65°	619	728	904	1020	1045	611
75°	292	385	494	549	564	315
85°	54	100	106	104	104	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.4	2008.4	2008.4	2008.4	2008.4
2.5°	2010.7	2006.1	1999.3	2008.4	2010.7
5°	2001.6	1999.3	1994.8	2001.6	2003.9
7.5°	1988.0	1985.7	1981.2	1992.5	1994.8
10°	1969.9	1969.9	1965.3	1976.7	1981.2
12.5°	1944.9	1947.2	1947.2	1958.5	1963.1
15°	1913.2	1917.7	1922.3	1940.4	1947.2
17.5°	1879.2	1886.0	1895.1	1917.7	1929.1
20°	1842.9	1847.5	1865.6	1899.6	1910.9
22.5°	1799.9	1806.7	1833.9	1881.5	1899.6
25°	1750.0	1763.6	1804.4	1870.1	1895.1
27.5°	1697.8	1713.7	1772.6	1858.8	1895.1
30°	1645.7	1663.8	1745.4	1852.0	1895.1
32.5°	1580.0	1611.7	1716.0	1845.2	1890.5
35°	1518.8	1557.3	1688.8	1831.6	1883.7
37.5°	1453.0	1500.6	1659.3	1813.5	1870.1
40°	1385.0	1444.0	1625.3	1790.8	1852.0
42.5°	1314.8	1385.0	1584.5	1761.3	1827.1
45°	1244.5	1323.8	1536.9	1718.2	1784.0
47.5°	1171.9	1260.3	1482.5	1666.1	1725.0
50°	1097.1	1194.6	1421.3	1602.6	1661.6
52.5°	1015.5	1128.9	1353.3	1525.6	1582.2
55°	943.0	1056.3	1274.0	1437.2	1489.3
57.5°	859.1	986.1	1190.1	1346.5	1389.6
60°	786.6	897.7	1099.4	1242.2	1280.8
62.5°	695.9	822.9	1004.2	1133.4	1162.9
65°	618.8	727.6	904.5	1020.1	1045.0
67.5°	535.0	641.5	800.2	902.2	929.4
70°	453.4	550.8	700.4	782.1	811.5
72.5°	374.0	467.0	596.2	666.4	680.0
75°	292.4	385.4	494.2	548.6	564.4
77.5°	224.4	301.5	396.7	439.8	437.5
80°	158.7	226.7	299.2	306.0	292.4
82.5°	102.0	160.9	201.7	185.9	185.9
85°	54.4	99.7	106.5	104.3	104.3
87.5°	20.4	36.3	36.3	36.3	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)