

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C6RX-1060-00-UNVE10-35-NA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3317  
 [ECN] 3081  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 1/2/2018 1:18:29 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C6RX-1060-00-UNVE10-35-NA  
 [LUMINAIRE] Natural anodized aluminum housing with clear glass step lens  
 [LAMP] Six (6) white LEDs (3500K) with clear satin enamel 10 deg x 60 deg round optics  
 [\_ELECTRICALS] 120.10 VAC, 0.08 A, 0.9925 PF, 14% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	9.98
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.50
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	0.96 ft
Luminous Height	0.00 ft



**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3365	4544	13900
55	2666	2915	3739
65	1974	1870	2403
75	722	736	1180
85	124	144	206

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**CANDELA TABULATION**

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0.0</b>	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72
<b>0.5</b>	2030.21	2026.66	2023.11	2019.61	2016.12	2010.84	2005.56	2002.63	1999.70	1999.46
<b>1.0</b>	2018.50	2015.36	2012.21	2008.51	2004.80	2000.82	1996.85	1994.89	1992.93	1993.10
<b>1.5</b>	1998.16	1995.12	1992.08	1989.58	1987.09	1984.39	1981.70	1981.41	1981.12	1982.45
<b>2.0</b>	1969.60	1967.77	1965.94	1964.29	1962.63	1961.77	1960.91	1962.64	1964.36	1968.34
<b>2.5</b>	1934.94	1934.07	1933.21	1933.35	1933.50	1934.04	1934.59	1938.85	1943.11	1950.14
<b>3.0</b>	1894.68	1894.30	1893.92	1895.49	1897.07	1900.38	1903.69	1911.69	1919.69	1929.73
<b>3.5</b>	1847.45	1848.50	1849.55	1853.02	1856.49	1862.75	1869.02	1880.20	1891.39	1904.99
<b>4.0</b>	1796.76	1798.31	1799.86	1804.89	1809.92	1819.90	1829.88	1845.19	1860.49	1877.66
<b>4.5</b>	1739.74	1742.47	1745.21	1753.25	1761.29	1773.96	1786.63	1806.00	1825.36	1846.92
<b>5.0</b>	1678.92	1682.73	1686.54	1696.73	1706.92	1723.65	1740.38	1763.53	1786.68	1813.61
<b>6.0</b>	1549.58	1554.73	1559.89	1575.10	1590.30	1613.55	1636.81	1669.73	1702.64	1739.21
<b>7.0</b>	1412.60	1419.90	1427.21	1446.33	1465.45	1495.29	1525.13	1566.53	1607.94	1655.62
<b>8.0</b>	1273.60	1282.14	1290.68	1313.25	1335.83	1371.75	1407.68	1457.26	1506.84	1565.30
<b>9.0</b>	1134.66	1144.25	1153.84	1179.40	1204.96	1245.95	1286.94	1344.74	1402.54	1471.44
<b>10.0</b>	1001.06	1011.26	1021.46	1048.87	1076.28	1121.09	1165.91	1231.10	1296.29	1375.11
<b>12.5</b>	713.35	722.62	731.89	759.71	787.54	835.86	884.19	958.41	1032.64	1131.40
<b>15.0</b>	501.94	509.74	517.54	541.20	564.87	607.02	649.17	720.96	792.75	898.59
<b>17.5</b>	349.36	355.68	362.00	381.09	400.18	435.95	471.72	533.40	595.08	693.34
<b>20.0</b>	243.73	248.61	253.49	268.48	283.48	311.58	339.69	389.87	440.04	524.66
<b>22.5</b>	170.13	173.87	177.62	189.18	200.74	222.19	243.64	282.43	321.23	390.02
<b>25.0</b>	119.71	122.68	125.65	134.39	143.13	159.49	175.85	205.06	234.28	286.92
<b>27.5</b>	87.00	88.79	90.58	96.92	103.26	115.47	127.69	149.52	171.36	210.12
<b>30.0</b>	65.39	66.77	68.16	72.45	76.75	85.21	93.67	109.93	126.19	154.41
<b>32.5</b>	52.02	52.82	53.62	56.47	59.31	65.09	70.86	82.44	94.02	114.97
<b>35.0</b>	43.14	43.72	44.30	46.02	47.74	51.55	55.37	63.37	71.36	86.94
<b>37.5</b>	37.40	37.63	37.85	38.96	40.07	42.44	44.81	50.46	56.11	67.23
<b>40.0</b>	32.77	32.99	33.21	33.91	34.62	36.19	37.76	41.69	45.62	53.21
<b>42.5</b>	29.19	29.36	29.54	30.07	30.60	31.60	32.61	35.32	38.04	43.15
<b>45.0</b>	26.50	26.62	26.74	27.04	27.35	28.18	29.02	30.67	32.33	35.78
<b>47.5</b>	23.77	23.96	24.16	24.40	24.65	25.18	25.72	26.85	27.98	30.14
<b>50.0</b>	21.29	21.52	21.76	21.93	22.10	22.54	22.98	23.70	24.41	25.71
<b>55.0</b>	17.03	17.04	17.06	17.29	17.52	17.59	17.66	17.98	18.30	18.62
<b>60.0</b>	12.78	12.82	12.86	12.97	13.08	13.17	13.26	13.22	13.17	13.12
<b>65.0</b>	9.29	9.21	9.12	9.14	9.15	9.16	9.17	9.04	8.91	8.80
<b>70.0</b>	5.02	5.17	5.32	5.31	5.30	5.21	5.12	5.04	4.96	4.94
<b>75.0</b>	2.08	2.13	2.18	2.17	2.16	2.08	2.00	2.06	2.12	2.12
<b>80.0</b>	0.65	0.65	0.65	0.63	0.62	0.65	0.67	0.70	0.74	0.74
<b>85.0</b>	0.12	0.12	0.11	0.12	0.13	0.13	0.13	0.14	0.15	0.14
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0.0</b>	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72	2006.72
<b>0.5</b>	1999.23	1997.73	1996.23	1994.46	1992.70	1991.67	1990.64	1990.80	1990.96
<b>1.0</b>	1993.28	1992.89	1992.49	1991.94	1991.39	1990.48	1989.57	1990.36	1991.16
<b>1.5</b>	1983.78	1985.23	1986.67	1986.97	1987.28	1987.76	1988.24	1988.87	1989.51
<b>2.0</b>	1972.33	1975.59	1978.86	1981.26	1983.66	1984.87	1986.07	1987.19	1988.31
<b>2.5</b>	1957.17	1963.56	1969.96	1974.43	1978.91	1981.78	1984.64	1986.03	1987.42
<b>3.0</b>	1939.77	1949.15	1958.54	1965.06	1971.57	1976.29	1981.01	1983.18	1985.35
<b>3.5</b>	1918.59	1931.19	1943.79	1953.65	1963.50	1969.98	1976.47	1979.80	1983.14
<b>4.0</b>	1894.82	1911.38	1927.95	1941.27	1954.59	1963.61	1972.63	1976.41	1980.20
<b>4.5</b>	1868.47	1889.82	1911.18	1927.60	1944.03	1955.73	1967.43	1971.88	1976.34

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**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	1840.54	1866.00	1891.47	1912.11	1932.75	1947.29	1961.83	1966.79	1971.75
<b>6.0</b>	1775.78	1811.86	1847.94	1877.46	1906.97	1927.96	1948.95	1957.35	1965.75
<b>7.0</b>	1703.30	1750.39	1797.49	1837.33	1877.17	1906.38	1935.58	1945.97	1956.37
<b>8.0</b>	1623.77	1683.60	1743.43	1794.59	1845.76	1883.46	1921.17	1935.80	1950.43
<b>9.0</b>	1540.34	1613.28	1686.23	1750.34	1814.45	1861.26	1908.08	1926.30	1944.53
<b>10.0</b>	1453.94	1539.67	1625.40	1702.52	1779.64	1837.24	1894.84	1916.87	1938.91
<b>12.5</b>	1230.15	1344.48	1458.81	1569.65	1680.48	1764.07	1847.66	1881.50	1915.34
<b>15.0</b>	1004.43	1138.80	1273.18	1410.67	1548.17	1655.69	1763.21	1808.17	1853.13
<b>17.5</b>	791.60	933.73	1075.86	1229.97	1384.08	1508.14	1632.20	1685.42	1738.64
<b>20.0</b>	609.27	743.53	877.79	1036.30	1194.81	1325.88	1456.96	1512.90	1568.84
<b>22.5</b>	458.81	573.82	688.83	840.12	991.41	1121.37	1251.34	1305.81	1360.27
<b>25.0</b>	339.56	432.95	526.34	660.76	795.17	916.98	1038.78	1088.84	1138.91
<b>27.5</b>	248.89	320.44	391.99	505.59	619.19	726.76	834.34	878.52	922.71
<b>30.0</b>	182.63	236.05	289.47	380.29	471.11	561.51	651.91	688.81	725.71
<b>32.5</b>	135.92	174.57	213.21	281.75	350.29	424.48	498.66	528.74	558.83
<b>35.0</b>	102.52	130.04	157.57	207.10	256.63	314.38	372.13	395.93	419.73
<b>37.5</b>	78.35	97.82	117.29	152.30	187.31	230.31	273.31	291.32	309.33
<b>40.0</b>	60.81	74.60	88.40	112.58	136.76	167.32	197.88	211.05	224.21
<b>42.5</b>	48.27	57.86	67.46	83.54	99.63	120.11	140.60	149.72	158.85
<b>45.0</b>	39.23	45.65	52.08	62.22	72.36	85.11	97.85	103.65	109.45
<b>47.5</b>	32.30	36.44	40.59	46.45	52.31	59.46	66.60	70.05	73.50
<b>50.0</b>	27.01	29.39	31.78	34.86	37.95	41.28	44.61	46.37	48.13
<b>55.0</b>	18.94	19.54	20.14	20.57	20.99	21.77	22.55	23.22	23.88
<b>60.0</b>	13.07	13.09	13.11	13.35	13.60	14.13	14.66	15.23	15.81
<b>65.0</b>	8.68	8.77	8.85	9.13	9.40	9.73	10.05	10.68	11.31
<b>70.0</b>	4.92	5.15	5.37	5.55	5.74	6.00	6.26	6.72	7.19
<b>75.0</b>	2.12	2.20	2.27	2.40	2.52	2.75	2.98	3.19	3.40
<b>80.0</b>	0.74	0.75	0.76	0.81	0.85	0.95	1.06	1.08	1.11
<b>85.0</b>	0.14	0.15	0.15	0.15	0.16	0.17	0.18	0.19	0.20
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	446.10	N.A.	54.40
0-30	652.95	N.A.	79.60
0-40	750.07	N.A.	91.40
0-60	808.25	N.A.	98.50
0-80	820.38	N.A.	100.00
0-90	820.67	N.A.	100.00
10-90	660.24	N.A.	80.50
20-40	303.97	N.A.	37.00
20-50	343.92	N.A.	41.90
40-70	67.44	N.A.	8.20
60-80	12.14	N.A.	1.50
70-80	2.87	N.A.	0.30
80-90	0.29	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	820.67	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.43
10-20	285.67
20-30	206.85
30-40	97.12
40-50	39.96
50-60	18.22
60-70	9.26
70-80	2.87
80-90	0.29
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

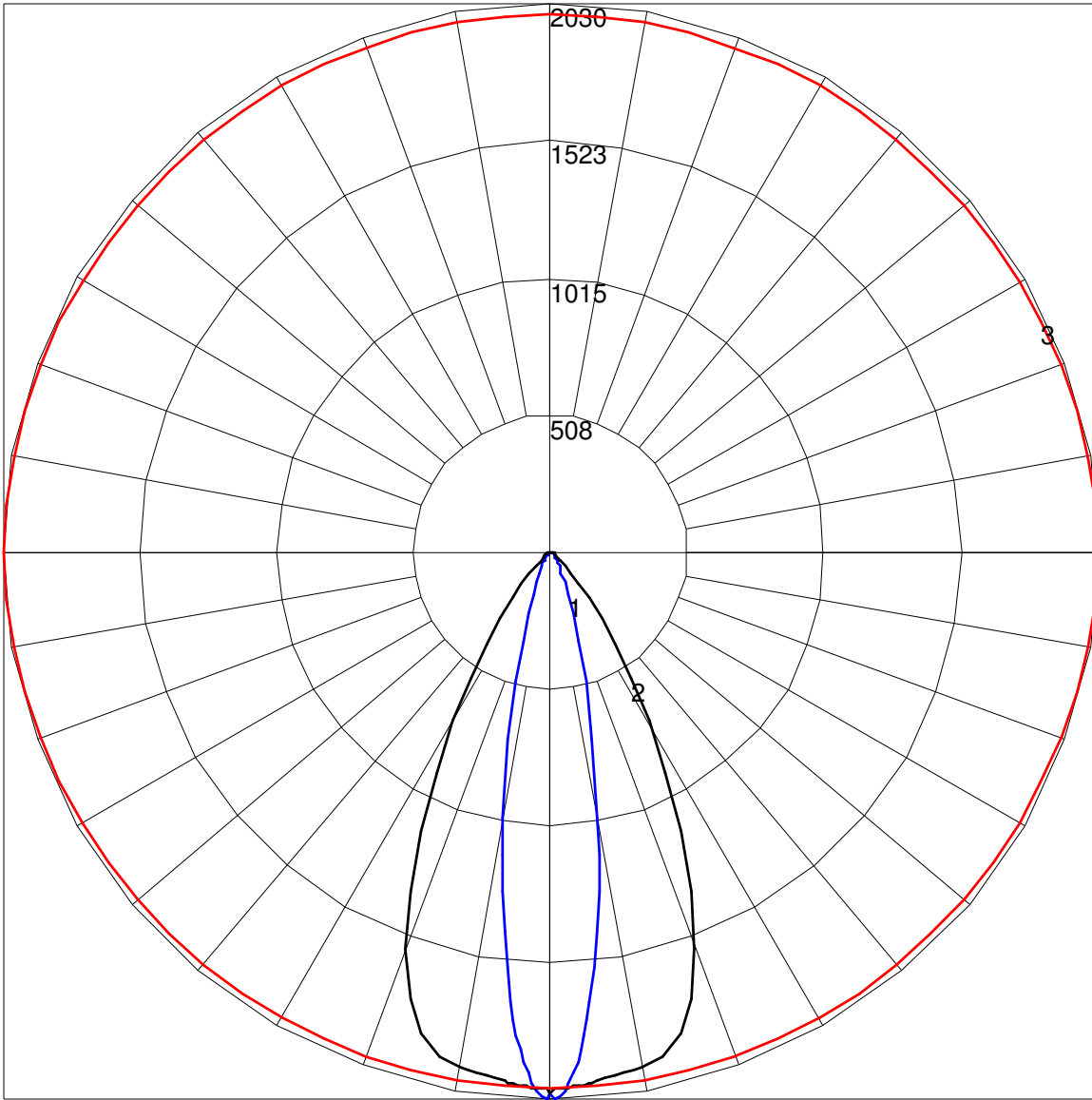
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74
6	91	83	77	74	90	82	77	73	81	76	73	79	75	72	78	75	72	71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	70	66	74	69	66	73	68	65	72	68	65	64
9	80	72	67	63	79	71	66	63	71	66	63	70	65	62	69	65	62	61
10	77	69	64	60	77	68	63	60	68	63	60	67	63	60	66	62	60	58

POLAR GRAPH



Maximum Candela = 2030.21 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)