

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : C6RX-60115-00-UNVE9-35-NA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 3402  
 [ECN] 3414  
 [TESTLAB] Tempo LLC  
 [ISSUEDATE] 3/28/2018 2:02:51 PM  
 [MANUFAC] Tempo LLC  
 [LUMCAT] C6RX-60115-00-UNVE9-35-NA  
 [LUMINAIRE] Natural anodized aluminum housing with frosted glass lens  
 [LAMP] Twenty (20) white LEDs (3500K) with 60 deg x 115 deg optic  
 [\_ELECTRICALS] 120.04 VAC, 0.08 A, 0.9934 PF, 19% ATHD

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	746
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	9.03
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.08
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	13622	19157	29176
55	9399	13978	24601
65	6880	10489	20057
75	2994	4580	8914
85	546	793	1391

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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>	438.97	438.97	438.97	438.97	438.97	438.97	438.97	438.97	438.97	438.97
<b>2.5</b>	438.84	438.30	437.75	437.51	437.25	436.82	436.37	436.72	437.07	437.65
<b>5.0</b>	437.51	436.88	436.25	435.94	435.62	435.29	434.96	435.08	435.21	435.86
<b>7.5</b>	433.77	433.16	432.56	432.23	431.90	431.70	431.50	431.69	431.87	432.46
<b>10.0</b>	426.80	426.30	425.80	425.62	425.43	425.39	425.34	425.84	426.34	427.11
<b>12.5</b>	415.57	415.22	414.87	415.03	415.18	415.70	416.21	417.18	418.14	419.30
<b>15.0</b>	399.78	399.62	399.45	400.13	400.79	402.02	403.25	404.92	406.59	408.52
<b>17.5</b>	379.65	379.59	379.53	380.92	382.30	384.38	386.46	389.29	392.12	395.04
<b>20.0</b>	355.45	355.61	355.75	357.87	359.97	363.03	366.08	370.18	374.28	378.39
<b>22.5</b>	328.15	328.75	329.35	332.09	334.82	338.87	342.90	348.30	353.68	359.22
<b>25.0</b>	299.45	300.22	300.98	304.30	307.62	312.63	317.63	324.16	330.68	337.49
<b>27.5</b>	270.07	271.00	271.92	275.73	279.53	285.14	290.74	298.37	305.99	314.11
<b>30.0</b>	241.00	242.09	243.19	247.31	251.44	257.50	263.55	271.92	280.28	289.40
<b>32.5</b>	213.33	214.44	215.54	219.72	223.89	230.34	236.78	245.63	254.47	264.35
<b>35.0</b>	187.31	188.52	189.73	193.85	197.97	204.51	211.05	220.12	229.17	239.47
<b>37.5</b>	163.60	164.69	165.78	169.89	174.00	180.34	186.68	195.69	204.69	215.19
<b>40.0</b>	142.47	143.56	144.64	148.46	152.28	158.27	164.27	172.99	181.71	192.17
<b>42.5</b>	123.61	124.63	125.64	129.27	132.89	138.43	143.96	152.24	160.51	170.63
<b>45.0</b>	107.26	108.23	109.19	112.41	115.63	120.77	125.90	133.56	141.23	150.84
<b>47.5</b>	92.85	93.75	94.64	97.60	100.54	105.23	109.92	116.93	123.93	132.96
<b>50.0</b>	80.31	81.12	81.92	84.60	87.27	91.51	95.75	102.10	108.45	116.77
<b>52.5</b>	69.47	70.21	70.95	73.29	75.62	79.44	83.26	88.96	94.66	102.35
<b>55.0</b>	60.03	60.72	61.41	63.45	65.48	68.84	72.20	77.26	82.32	89.28
<b>57.5</b>	51.82	52.41	53.01	54.80	56.58	59.56	62.53	67.00	71.46	77.67
<b>60.0</b>	44.52	45.09	45.66	47.21	48.74	51.36	53.96	57.85	61.73	67.23
<b>62.5</b>	38.11	38.63	39.15	40.45	41.75	44.07	46.38	49.70	53.01	57.86
<b>65.0</b>	32.38	32.86	33.33	34.44	35.55	37.52	39.49	42.35	45.21	49.36
<b>67.5</b>	24.49	24.85	25.21	26.04	26.86	28.38	29.89	32.05	34.21	37.41
<b>70.0</b>	18.02	18.30	18.57	19.19	19.79	20.93	22.05	23.65	25.24	27.63
<b>72.5</b>	12.75	12.96	13.15	13.60	14.03	14.83	15.63	16.76	17.89	19.58
<b>75.0</b>	8.63	8.76	8.89	9.18	9.47	10.01	10.55	11.30	12.05	13.20
<b>77.5</b>	5.41	5.51	5.60	5.78	5.95	6.29	6.62	7.10	7.56	8.26
<b>80.0</b>	3.10	3.13	3.16	3.26	3.36	3.55	3.73	4.00	4.26	4.64
<b>82.5</b>	1.49	1.51	1.52	1.57	1.61	1.70	1.79	1.90	2.02	2.20
<b>85.0</b>	0.53	0.54	0.55	0.57	0.59	0.61	0.64	0.67	0.71	0.77
<b>87.5</b>	0.11	0.11	0.11	0.12	0.12	0.12	0.13	0.13	0.13	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>	438.97	438.97	438.97	438.97	438.97	438.97	438.97	438.97	438.97
<b>2.5</b>	438.22	438.90	439.58	439.75	439.92	440.16	440.40	440.33	440.26
<b>5.0</b>	436.50	437.12	437.73	437.83	437.92	438.05	438.18	438.25	438.31
<b>7.5</b>	433.04	433.66	434.27	434.46	434.64	434.69	434.73	434.76	434.79
<b>10.0</b>	427.88	428.54	429.20	429.54	429.87	429.83	429.79	429.82	429.84
<b>12.5</b>	420.46	421.40	422.33	422.83	423.32	423.36	423.40	423.45	423.49
<b>15.0</b>	410.45	412.05	413.65	414.37	415.09	415.27	415.44	415.61	415.78
<b>17.5</b>	397.95	400.33	402.70	403.88	405.06	405.58	406.09	406.18	406.25
<b>20.0</b>	382.51	386.10	389.69	391.62	393.56	394.40	395.25	395.40	395.56
<b>22.5</b>	364.77	369.48	374.18	377.17	380.15	381.48	382.81	383.07	383.33
<b>25.0</b>	344.31	350.57	356.82	360.78	364.74	366.80	368.86	369.33	369.79
<b>27.5</b>	322.23	329.85	337.46	342.79	348.11	350.83	353.54	354.22	354.88
<b>30.0</b>	298.50	307.50	316.49	323.06	329.62	333.28	336.93	337.91	338.89

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	274.22	284.31	294.40	302.16	309.91	314.56	319.19	320.54	321.88
<b>35.0</b>	249.78	260.78	271.79	280.61	289.43	295.09	300.75	302.46	304.16
<b>37.5</b>	225.68	237.32	248.95	258.76	268.57	275.14	281.71	283.72	285.72
<b>40.0</b>	202.63	214.59	226.54	237.03	247.51	254.92	262.33	264.76	267.19
<b>42.5</b>	180.74	192.71	204.67	215.68	226.68	234.84	242.99	245.68	248.36
<b>45.0</b>	160.44	172.19	183.92	195.14	206.35	215.03	223.72	226.72	229.73
<b>47.5</b>	141.99	153.17	164.35	175.59	186.83	195.75	204.67	207.79	210.92
<b>50.0</b>	125.08	135.67	146.26	157.17	168.08	177.10	186.11	189.39	192.66
<b>52.5</b>	110.03	119.83	129.63	139.96	150.29	159.11	167.93	171.25	174.56
<b>55.0</b>	96.24	105.29	114.35	124.04	133.73	142.11	150.48	153.81	157.13
<b>57.5</b>	83.88	92.09	100.30	109.33	118.35	126.17	133.98	137.13	140.27
<b>60.0</b>	72.73	80.02	87.30	95.52	103.73	111.09	118.45	121.40	124.35
<b>62.5</b>	62.70	69.04	75.38	82.80	90.20	96.84	103.47	106.30	109.12
<b>65.0</b>	53.52	59.01	64.51	70.99	77.47	83.29	89.11	91.75	94.39
<b>67.5</b>	40.61	44.80	48.98	53.99	58.99	63.55	68.11	70.17	72.24
<b>70.0</b>	30.01	33.08	36.15	39.92	43.68	47.08	50.47	52.02	53.56
<b>72.5</b>	21.28	23.48	25.68	28.35	31.02	33.47	35.91	37.02	38.13
<b>75.0</b>	14.34	15.80	17.25	19.09	20.92	22.57	24.22	24.96	25.69
<b>77.5</b>	8.96	9.87	10.78	11.92	13.05	14.08	15.10	15.57	16.03
<b>80.0</b>	5.02	5.53	6.03	6.65	7.26	7.84	8.41	8.67	8.93
<b>82.5</b>	2.37	2.60	2.82	3.10	3.37	3.64	3.90	4.02	4.14
<b>85.0</b>	0.83	0.89	0.95	1.04	1.12	1.21	1.29	1.32	1.35
<b>87.5</b>	0.15	0.16	0.16	0.17	0.18	0.19	0.20	0.20	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	155.72	N.A.	20.90
0-30	309.70	N.A.	41.50
0-40	461.44	N.A.	61.90
0-60	673.56	N.A.	90.30
0-80	744.04	N.A.	99.80
0-90	745.69	N.A.	100.00
10-90	704.30	N.A.	94.40
20-40	305.73	N.A.	41.00
20-50	429.28	N.A.	57.60
40-70	265.54	N.A.	35.60
60-80	70.48	N.A.	9.50
70-80	17.05	N.A.	2.30
80-90	1.65	N.A.	0.20
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	745.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.40
10-20	114.32
20-30	153.98
30-40	151.75
40-50	123.55
50-60	88.57
60-70	53.42
70-80	17.05
80-90	1.65
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

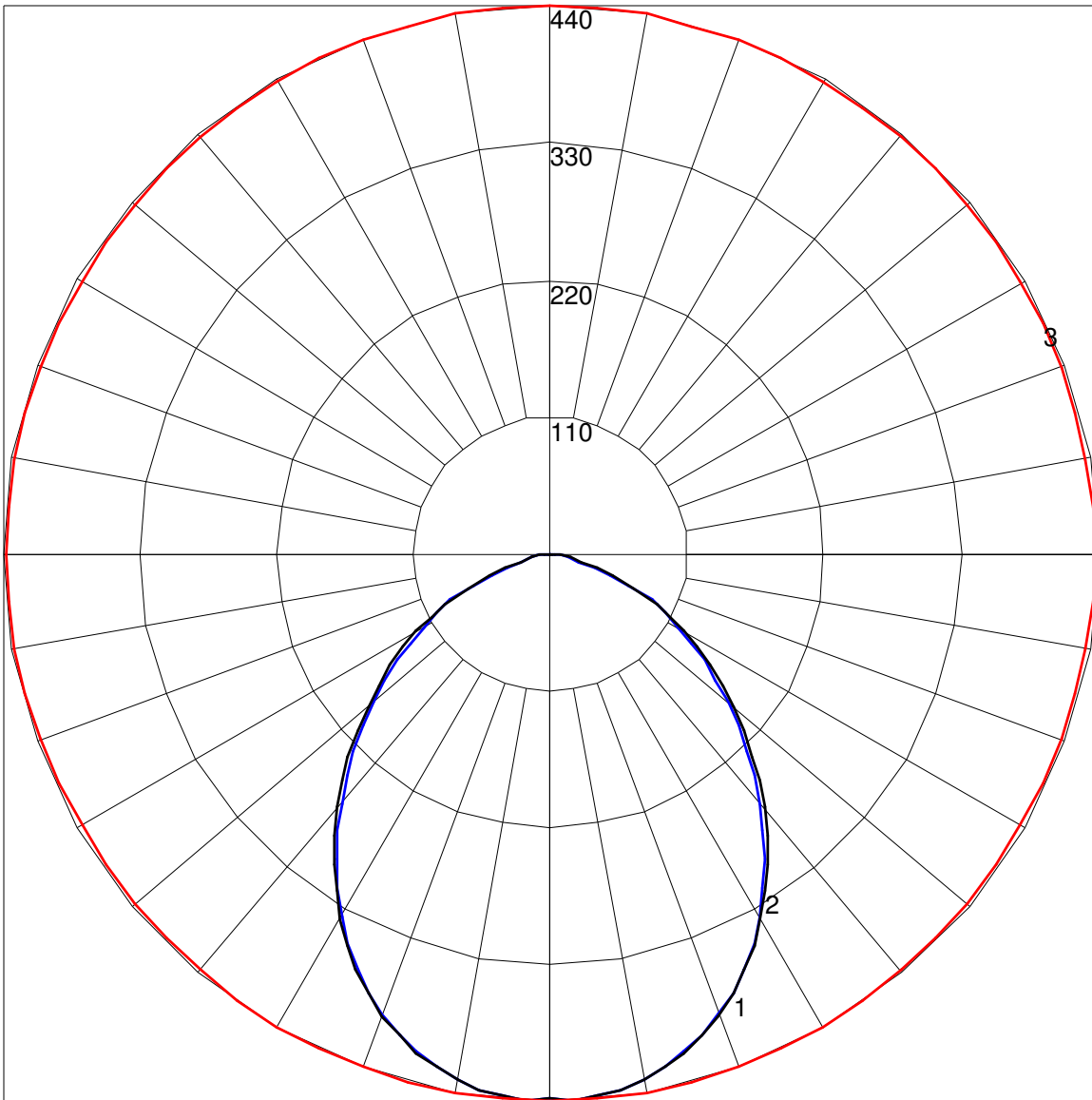
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
7	72	60	52	47	70	59	52	46	57	51	46	56	50	46	55	50	45	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40
9	63	51	44	39	62	51	43	39	49	43	38	48	42	38	47	42	38	36
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34

POLAR GRAPH



Maximum Candela = 440.4 Located At Horizontal Angle = 80, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)