



1961 McGaw Ave, Irvine, CA 92614
 phone: 949.442.1601
 email: info@tempolc.com

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R00-12-3012-52DP30S-NA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3328
 [TESTLAB] Tempo LLC
 [ISSUEDATE] 1/16/2018 3:57:11 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C4R00-12-3012-52DP30S-NA
 [LUMINAIRE] Natural anodized aluminum housing with lightly frosted dome lens
 [LAMP] Twenty-one (21) white LEDs (3000K)
 [_ELECTRICALS] 24.03 VDC, 0.22 A, 1.00 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	5.22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.04 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14946	15651	19561
55	12965	14000	18338
65	10740	11259	15375
75	2684	6967	12124
85	449	1236	9189

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R00-12-3012-52DP30S-NA.IES

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>
0.0	217.76	217.76	217.76	217.76	217.76	217.76	217.76	217.76	217.76	217.76
2.5	218.62	217.90	217.18	217.14	217.11	217.10	217.08	217.11	217.13	217.19
5.0	217.03	216.38	215.73	215.82	215.90	215.89	215.88	215.99	216.10	216.25
7.5	215.69	215.03	214.35	214.36	214.36	214.39	214.43	214.41	214.39	214.56
10.0	214.30	213.51	212.73	212.72	212.71	212.64	212.56	212.64	212.72	212.92
12.5	212.44	211.56	210.68	210.45	210.22	210.14	210.05	210.27	210.48	210.77
15.0	209.97	209.20	208.43	208.19	207.93	207.75	207.57	207.64	207.70	207.95
17.5	206.80	206.21	205.61	205.55	205.49	205.16	204.83	204.91	204.99	205.19
20.0	204.08	203.35	202.61	202.47	202.31	202.04	201.77	201.86	201.95	202.08
22.5	202.12	201.06	199.99	199.70	199.39	199.06	198.72	198.72	198.71	198.75
25.0	198.79	198.02	197.24	196.93	196.62	196.28	195.94	195.57	195.19	195.12
27.5	194.42	193.86	193.29	193.14	192.98	192.82	192.64	192.09	191.54	191.38
30.0	188.88	188.46	188.04	188.21	188.38	188.39	188.40	188.19	187.97	187.39
32.5	183.43	183.00	182.56	182.69	182.81	182.83	182.85	183.25	183.64	182.86
35.0	177.88	177.64	177.40	177.29	177.17	176.96	176.74	177.46	178.17	177.78
37.5	172.03	172.22	172.40	172.07	171.74	171.22	170.69	171.27	171.84	172.08
40.0	166.56	166.55	166.53	166.05	165.56	165.31	165.05	164.91	164.77	165.50
42.5	160.05	160.19	160.33	159.91	159.48	159.24	158.98	158.55	158.11	158.56
45.0	153.58	153.55	153.51	153.26	153.00	152.73	152.45	152.15	151.84	151.73
47.5	146.43	146.31	146.19	145.89	145.57	145.48	145.38	145.36	145.32	145.00
50.0	137.48	137.66	137.82	137.63	137.44	137.50	137.56	137.64	137.72	137.41
52.5	128.28	128.53	128.77	128.61	128.45	128.84	129.23	129.35	129.47	129.20
55.0	120.40	120.32	120.23	119.77	119.31	119.62	119.92	120.32	120.72	120.60
57.5	112.27	112.17	112.06	111.53	111.00	110.95	110.90	111.04	111.18	111.25
60.0	103.86	103.63	103.40	103.11	102.82	102.58	102.33	101.86	101.38	101.41
62.5	95.07	94.76	94.45	94.20	93.94	93.82	93.69	92.87	92.04	91.62
65.0	86.09	86.11	86.12	85.52	84.91	84.68	84.45	83.71	82.97	81.87
67.5	74.41	74.59	74.77	74.83	74.88	74.94	75.00	74.34	73.67	72.34
70.0	57.49	58.08	58.67	59.87	61.06	62.42	63.77	63.91	64.03	63.10
72.5	35.63	36.63	37.63	39.83	42.02	45.11	48.19	50.24	52.29	52.69
75.0	17.45	18.29	19.13	20.95	22.77	26.21	29.65	33.41	37.17	39.77
77.5	8.30	8.76	9.22	10.13	11.04	13.09	15.13	18.36	21.60	25.51
80.0	4.71	4.90	5.10	5.55	5.99	6.95	7.90	9.59	11.28	14.33
82.5	3.12	3.21	3.31	3.56	3.80	4.25	4.69	5.53	6.36	7.94
85.0	2.15	2.23	2.29	2.43	2.56	2.87	3.16	3.58	4.00	4.91
87.5	1.50	1.56	1.61	1.71	1.79	2.04	2.28	2.53	2.78	3.32
90.0	1.13	1.17	1.20	1.28	1.36	1.55	1.73	1.93	2.11	2.44
100.0	0.71	0.75	0.78	0.82	0.85	0.94	1.02	1.13	1.23	1.32
110.0	0.61	0.64	0.67	0.70	0.72	0.77	0.81	0.86	0.89	0.91
120.0	0.55	0.58	0.60	0.61	0.62	0.64	0.65	0.65	0.64	0.67
130.0	0.49	0.51	0.53	0.53	0.53	0.55	0.56	0.58	0.59	0.63
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	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>
0.0	217.76	217.76	217.76	217.76	217.76	217.76	217.76	217.76	217.76
2.5	217.25	217.25	217.26	217.32	217.38	217.40	217.43	217.51	217.59
5.0	216.40	216.55	216.70	216.85	216.99	217.14	217.29	217.44	217.58
7.5	214.73	215.04	215.35	215.67	215.97	216.28	216.57	216.71	216.83

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R00-12-3012-52DP30S-NA.IES

CANDELA TABULATION - (Cont.)

10.0	213.11	213.39	213.67	213.89	214.10	214.42	214.74	214.96	215.18
12.5	211.05	211.23	211.40	211.59	211.79	212.27	212.74	213.09	213.44
15.0	208.20	208.57	208.93	209.19	209.44	209.91	210.38	210.77	211.15
17.5	205.38	205.77	206.15	206.39	206.63	207.14	207.65	208.15	208.65
20.0	202.21	202.55	202.88	203.30	203.71	204.15	204.59	204.96	205.33
22.5	198.78	199.13	199.48	199.88	200.27	200.62	200.97	201.18	201.38
25.0	195.03	195.26	195.49	195.65	195.81	196.13	196.45	196.73	197.00
27.5	191.23	190.87	190.50	190.75	191.00	191.43	191.85	192.29	192.73
30.0	186.81	186.14	185.47	186.00	186.53	187.06	187.60	188.50	189.39
32.5	182.08	181.30	180.52	181.12	181.73	182.68	183.63	184.60	185.56
35.0	177.38	176.46	175.53	176.17	176.81	177.75	178.69	179.88	181.07
37.5	172.31	171.43	170.54	170.71	170.86	171.67	172.47	173.75	175.01
40.0	166.22	165.56	164.89	164.49	164.08	164.92	165.76	167.01	168.25
42.5	158.99	158.74	158.49	157.78	157.05	157.71	158.36	159.64	160.92
45.0	151.62	151.86	152.09	150.96	149.82	150.36	150.90	152.22	153.54
47.5	144.67	144.65	144.64	143.43	142.21	142.42	142.62	143.70	144.77
50.0	137.08	136.66	136.22	135.16	134.11	133.45	132.78	133.61	134.43
52.5	128.92	128.13	127.33	126.11	124.90	124.26	123.63	125.04	126.46
55.0	120.46	119.18	117.90	116.86	115.82	115.96	116.09	117.43	118.76
57.5	111.31	109.84	108.38	108.09	107.80	107.46	107.11	107.68	108.25
60.0	101.43	100.24	99.05	98.97	98.89	97.49	96.08	96.61	97.13
62.5	91.20	90.50	89.80	88.89	87.98	86.69	85.41	86.02	86.63
65.0	80.77	80.61	80.44	78.98	77.52	76.17	74.83	75.13	75.43
67.5	71.01	70.56	70.09	68.59	67.08	65.88	64.67	65.11	65.55
70.0	62.16	60.98	59.81	58.47	57.13	56.60	56.05	57.01	57.96
72.5	53.09	51.88	50.66	49.32	47.98	47.81	47.64	47.77	47.91
75.0	42.37	42.09	41.79	40.69	39.58	38.49	37.39	38.02	38.64
77.5	29.42	30.75	32.08	31.81	31.54	30.81	30.07	30.73	31.40
80.0	17.37	19.77	22.17	22.92	23.66	23.60	23.54	24.44	25.34
82.5	9.52	11.59	13.65	15.36	17.06	17.22	17.39	18.05	18.72
85.0	5.81	7.06	8.30	9.77	11.24	11.56	11.88	12.24	12.60
87.5	3.85	4.59	5.33	6.20	7.07	7.09	7.11	6.90	6.67
90.0	2.77	3.22	3.67	4.10	4.52	4.34	4.16	3.03	1.90
100.0	1.39	1.43	1.46	1.46	1.46	1.71	1.96	3.57	5.18
110.0	0.93	0.90	0.86	0.93	1.00	1.49	1.97	2.63	3.28
120.0	0.69	0.71	0.73	0.86	0.97	1.26	1.54	1.78	2.02
130.0	0.66	0.00	0.00	0.00	0.00	1.23	1.34	1.43	1.51
140.0	0.00	0.00	0.00	0.00	0.00	1.15	1.29	1.35	1.41
150.0	0.00	0.00	0.00	0.00	0.00	0.73	0.74	0.75	0.76
160.0	0.00	0.00	0.00	0.00	0.00	0.64	0.64	0.62	0.60
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R00-12-3012-52DP30S-NA.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	79.54	N.A.	12.50
0-30	169.98	N.A.	26.80
0-40	280.99	N.A.	44.30
0-60	504.36	N.A.	79.50
0-80	621.23	N.A.	97.90
0-90	629.00	N.A.	99.10
10-90	608.43	N.A.	95.90
20-40	201.45	N.A.	31.70
20-50	318.60	N.A.	50.20
40-70	303.53	N.A.	47.80
60-80	116.87	N.A.	18.40
70-80	36.71	N.A.	5.80
80-90	7.77	N.A.	1.20
90-110	3.54	N.A.	0.60
90-120	4.51	N.A.	0.70
90-130	5.16	N.A.	0.80
90-150	5.61	N.A.	0.90
90-180	5.69	N.A.	0.90
110-180	2.15	N.A.	0.30
0-180	634.69	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.57
10-20	58.97
20-30	90.43
30-40	111.02
40-50	117.15
50-60	106.22
60-70	80.16
70-80	36.71
80-90	7.77
90-100	2.19
100-110	1.35
110-120	0.97
120-130	0.65
130-140	0.33
140-150	0.12
150-160	0.06
160-170	0.02
170-180	0.00

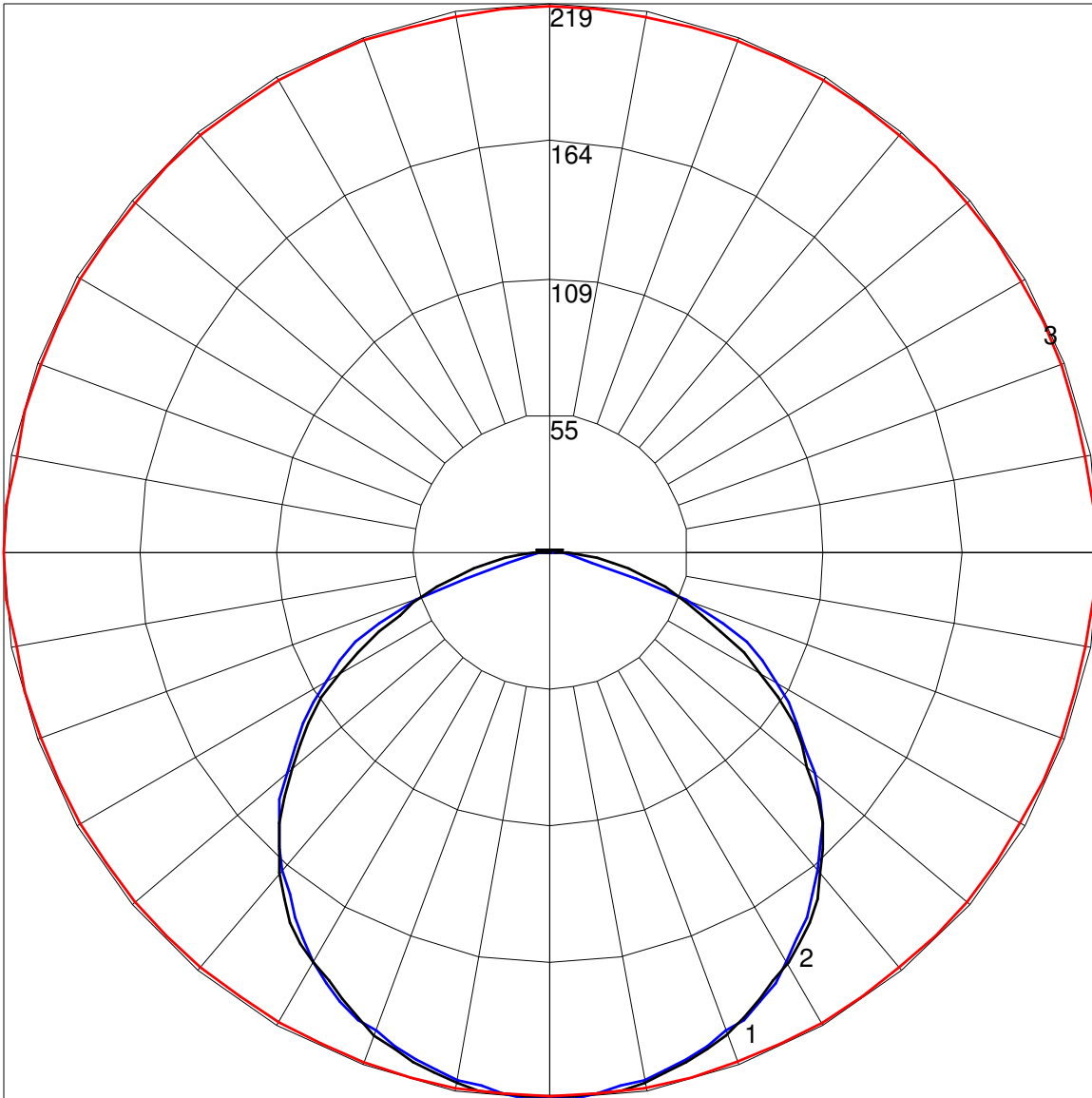
IES INDOOR REPORT
PHOTOMETRIC FILENAME : C4R00-12-3012-52DP30S-NA.IES

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	101	101	101	99
1	109	104	100	96	106	102	98	95	97	94	91	93	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	77	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	82	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	57	51	46	55	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 218.62 Located At Horizontal Angle = 0, Vertical Angle = 2.5

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 (2.5) (Through Max. Cd.)