

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

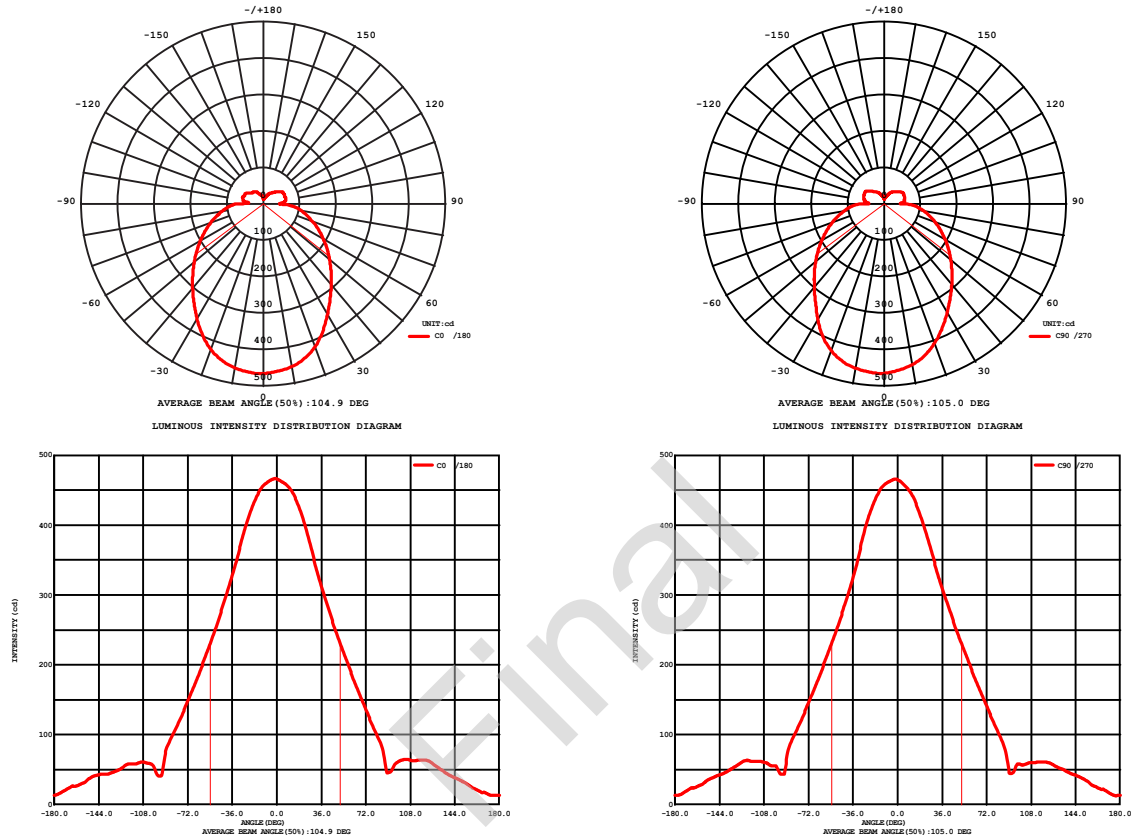


Fig. C0/C180

Fig. C90/C270

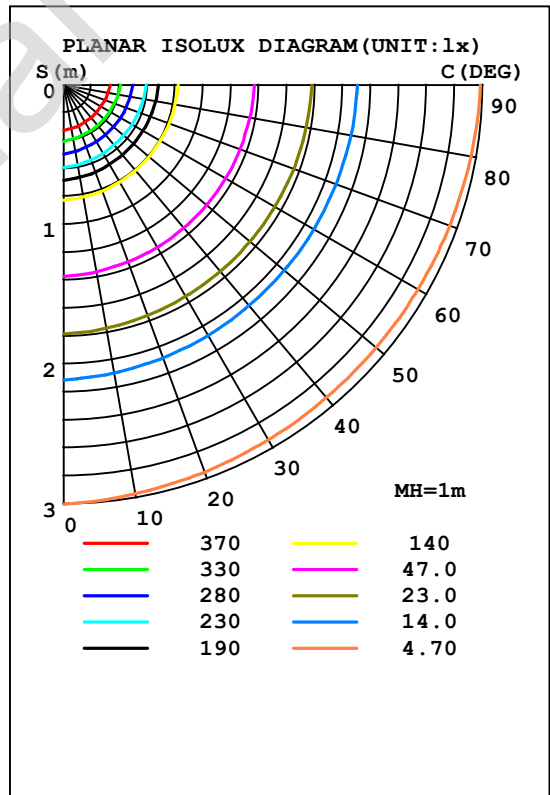
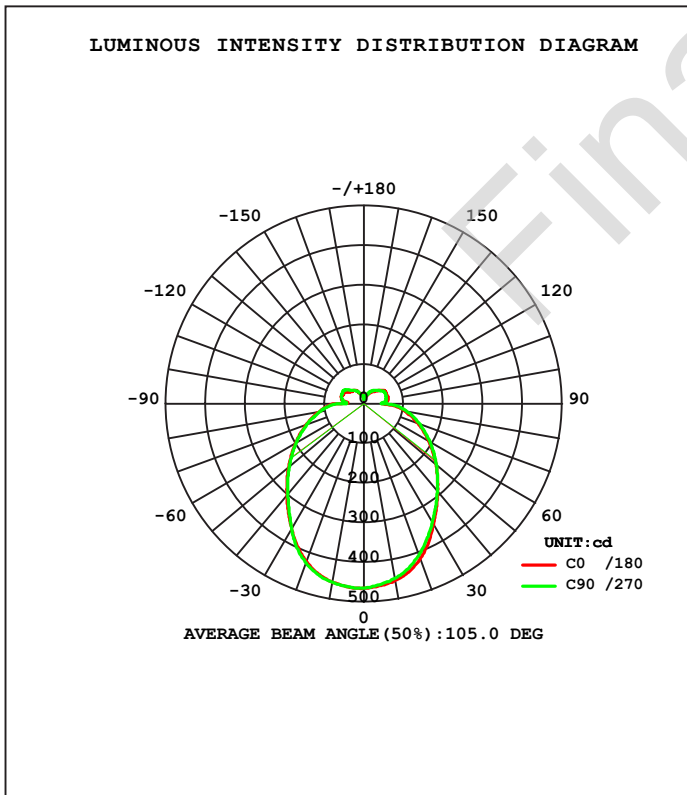
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2015-07-28

Range: 0 - 180DEG
Interval: 0.5DEG
Test System: GO-2000B SYSTEM V1.0.203
Humidity: 65.0%
Test Distance: 5.500m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.0V I:0.2085A P:23.74W PF:0.9569 Lamp Flux:1676x1 lm		
NAME: Ringer 28L	TYPE:WW	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:2015072802
MANUFACTURER: LF Illumination, LLC	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	3014 LED	Imax(cd)	466.2	S/MH(C0/180)	1.17
NOMINAL POWER(W)	24	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1675.6	UP(C0-180)	9.4
NOMINAL FLUX(lm)	1676.0	CIE CLASS	SEMI-D.	DN(C0-180)	41.2
LAMPS INSIDE	1	up(%)	18.9	UP(C180-360)	9.5
TEST VOLTAGE(V)	119.0	down(%)	81.1	DN(C180-360)	39.9



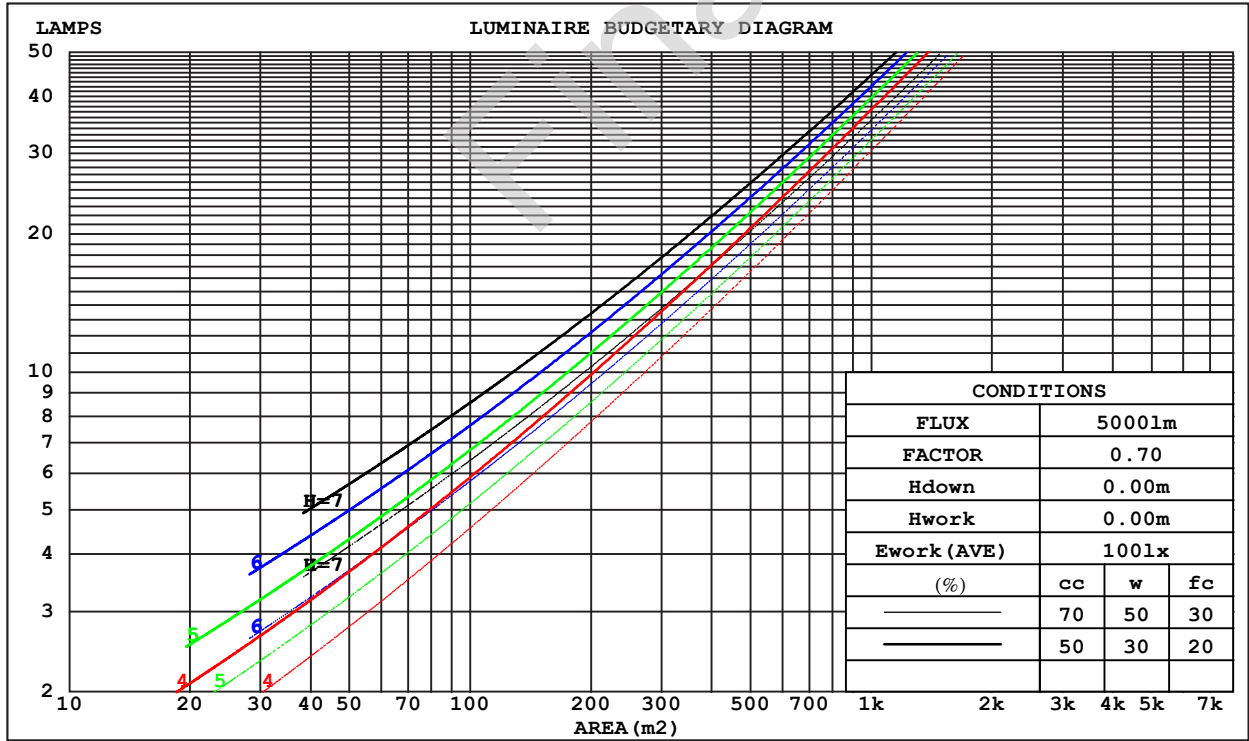
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.0V I:0.2085A P:23.74W PF:0.9569 Lamp Flux:1676x1 lm		
NAME: Ringer 28L	TYPE:WW	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:2015072802
MANUFACTURER: LF Illumination, LLC	SURFACE:	PROTECTION ANGLE:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization (CU)									
0.0	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.92	.92	.92	.85	.85	.85	.81
1.0	.97	.92	.88	.93	.88	.84	.85	.82	.78	.78	.75	.73	.71	.69	.67	.64
2.0	.84	.76	.70	.80	.73	.68	.73	.68	.63	.67	.63	.59	.62	.58	.55	.52
3.0	.73	.65	.58	.70	.62	.56	.64	.58	.53	.59	.54	.49	.54	.50	.46	.43
4.0	.65	.56	.49	.62	.54	.47	.57	.50	.45	.52	.47	.42	.48	.43	.39	.37
5.0	.58	.48	.42	.55	.47	.41	.51	.44	.38	.47	.41	.36	.43	.38	.34	.32
6.0	.52	.43	.36	.50	.41	.35	.46	.39	.34	.43	.37	.32	.39	.34	.30	.28
7.0	.47	.38	.32	.45	.37	.31	.42	.35	.30	.39	.33	.28	.36	.31	.27	.24
8.0	.43	.34	.28	.41	.33	.28	.38	.31	.27	.36	.30	.25	.33	.28	.24	.22
9.0	.39	.31	.26	.38	.30	.25	.35	.29	.24	.33	.27	.23	.31	.26	.22	.20
10.0	.36	.28	.23	.35	.28	.23	.33	.26	.22	.31	.25	.21	.29	.23	.20	.18



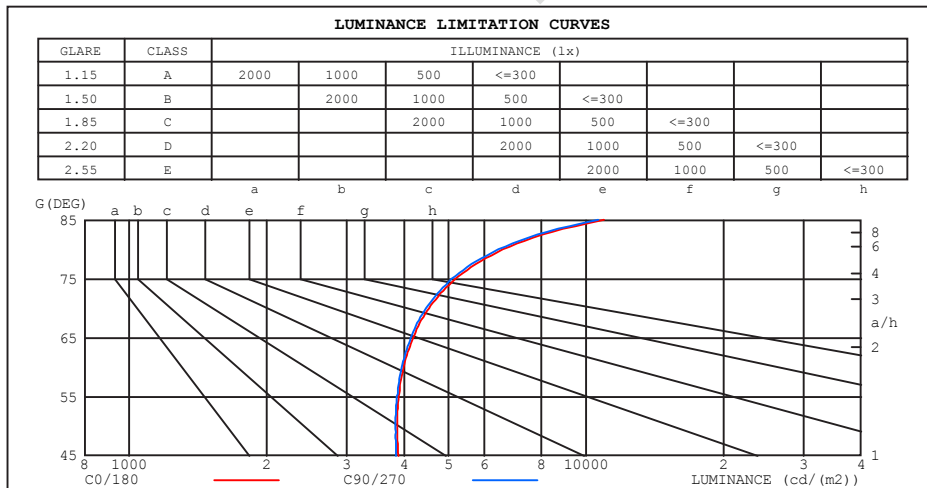
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%
5	464.2	460.9	463.9	463.7	461.4	462.9	458.5	454.4	0- 5	11.07	11.07	0.66
10	457.3	452.3	458.1	459.6	453.6	456.0	448.3	442.6	5- 10	32.71	32.71	2.61
15	444.9	435.9	447.0	451.8	439.2	443.9	430.8	423.5	10- 15	53.00	53.00	5.78
20	424.4	410.2	428.4	437.6	416.9	423.2	406.9	399.0	15- 20	70.73	70.73	10.00
25	397.6	377.7	400.9	413.5	386.4	395.5	377.7	369.7	20- 25	84.77	84.77	15.06
30	365.4	345.0	365.5	377.4	352.0	365.0	346.2	338.6	25- 30	94.46	94.46	20.69
35	333.2	314.5	329.9	342.1	320.4	334.3	316.4	308.5	30- 35	100.2	100.2	26.67
40	303.0	286.2	299.6	311.7	290.8	306.2	289.5	280.6	35- 40	103.4	103.4	32.85
45	275.1	259.6	271.9	283.6	263.3	280.0	263.5	254.0	40- 45	104.5	104.5	39.08
50	248.4	234.8	246.1	257.0	238.1	255.2	239.0	228.9	45- 50	103.4	103.4	45.25
55	223.4	210.6	221.4	231.3	213.3	231.0	216.0	205.0	50- 55	100.4	100.4	51.25
60	199.6	187.3	197.9	206.5	189.7	207.4	193.1	182.4	55- 60	95.72	95.72	56.96
65	177.2	165.2	175.0	182.8	166.8	184.4	170.8	160.5	60- 65	89.47	89.47	62.30
70	155.2	143.5	152.9	159.9	145.2	162.2	149.5	139.6	65- 70	81.93	81.93	67.19
75	134.2	122.8	131.7	138.7	123.8	140.3	129.1	119.7	70- 75	73.40	73.40	71.57
80	114.2	103.2	111.9	117.9	103.8	119.3	109.3	100.7	75- 80	64.19	64.19	75.40
85	95.44	83.46	92.75	97.94	82.48	99.06	88.93	79.34	80- 85	54.42	54.42	78.65
90	73.11	61.43	68.59	70.83	55.58	71.43	58.57	42.06	85- 90	40.68	40.68	81.08
95	40.83	27.84	34.63	34.47	22.54	26.98	20.06	13.04	90- 95	26.07	26.07	82.63
100	56.73	57.28	55.44	55.59	63.18	61.78	57.03	57.01	95-100	29.27	29.27	84.38
105	59.20	57.52	58.83	62.17	64.60	62.44	58.89	61.83	100-105	31.68	31.68	86.27
110	60.86	57.80	61.48	64.69	62.45	63.55	60.02	62.44	105-110	32.10	32.10	88.19
115	57.87	55.27	61.74	65.62	63.81	61.19	61.29	61.36	110-115	31.07	31.07	90.04
120	57.89	53.29	62.68	64.21	63.35	59.77	60.68	59.80	115-120	29.43	29.43	91.80
125	52.27	53.40	61.74	62.50	60.24	58.88	57.98	55.06	120-125	27.47	27.47	93.44
130	47.81	49.27	55.43	57.40	53.43	56.39	53.04	50.08	125-130	24.05	24.05	94.87
135	44.35	44.92	49.96	52.05	47.51	53.02	49.38	45.23	130-135	20.44	20.44	96.09
140	43.71	42.77	45.02	47.35	41.67	47.68	44.76	41.78	135-140	17.13	17.13	97.11
145	42.02	40.10	41.80	42.46	37.57	42.45	41.21	38.36	140-145	14.20	14.20	97.96
150	38.56	36.14	37.82	38.45	33.29	38.77	37.10	34.44	145-150	11.47	11.47	98.65
155	31.54	29.39	32.97	34.02	28.35	33.85	31.25	28.44	150-155	8.698	8.698	99.16
160	27.78	25.31	27.02	28.00	22.50	26.92	25.67	23.67	155-160	5.975	5.975	99.52
165	27.01	24.39	23.40	23.58	18.03	22.11	21.59	21.41	160-165	3.965	3.965	99.76
170	21.55	18.81	20.13	20.86	15.72	19.84	18.23	17.17	165-170	2.530	2.530	99.91
175	16.30	13.81	14.64	15.84	12.96	14.26	13.18	13.24	170-175	1.197	1.197	99.98
180	13.35	13.23	13.03	13.75	13.30	13.15	13.15	13.74	175-180	0.3270	0.3270	100.00
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10951	10642
80	6579	6444
75	5185	5088
70	4536	4472
65	4193	4140
60	3991	3958
55	3895	3860
50	3864	3829
45	3890	3846

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WEC AND CCEC

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cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.355	.202	.064	.342	.195	.062	.317	.182	.058	.295	.170	.055	.275	.159	.051	
2.0	.313	.171	.053	.301	.166	.051	.279	.155	.048	.259	.145	.045	.240	.136	.043	
3.0	.280	.149	.045	.270	.145	.044	.250	.136	.041	.232	.127	.039	.215	.119	.037	
4.0	.254	.132	.039	.245	.128	.038	.227	.120	.036	.210	.113	.034	.195	.106	.032	
5.0	.232	.118	.034	.224	.115	.033	.207	.108	.032	.192	.101	.030	.178	.095	.029	
6.0	.214	.107	.031	.206	.104	.030	.191	.098	.028	.177	.092	.027	.164	.086	.026	
7.0	.198	.098	.028	.191	.095	.027	.177	.089	.026	.164	.084	.025	.152	.079	.023	
8.0	.184	.090	.025	.177	.087	.025	.165	.082	.024	.153	.078	.022	.142	.073	.021	
9.0	.172	.083	.023	.166	.081	.023	.154	.076	.022	.143	.072	.021	.133	.068	.020	
10.0	.161	.077	.021	.155	.075	.021	.145	.071	.020	.135	.067	.019	.125	.063	.018	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.335	.335	.335	.286	.286	.286	.195	.195	.195	.112	.112	.112	.036	.036	.036	
1.0	.329	.301	.276	.281	.258	.238	.192	.178	.164	.111	.103	.096	.035	.033	.031	
2.0	.321	.278	.242	.275	.239	.209	.189	.166	.146	.109	.096	.085	.035	.031	.028	
3.0	.314	.261	.220	.269	.226	.191	.185	.157	.134	.107	.092	.079	.034	.030	.026	
4.0	.306	.249	.205	.262	.215	.178	.180	.150	.126	.104	.088	.074	.034	.029	.024	
5.0	.298	.239	.195	.256	.207	.170	.176	.144	.120	.102	.085	.071	.033	.028	.023	
6.0	.291	.231	.188	.250	.200	.164	.173	.140	.116	.100	.082	.069	.032	.027	.023	
7.0	.284	.224	.182	.244	.194	.159	.169	.136	.113	.098	.080	.067	.032	.026	.022	
8.0	.278	.219	.178	.239	.190	.155	.165	.133	.110	.096	.079	.066	.031	.026	.022	
9.0	.271	.214	.175	.234	.186	.153	.162	.131	.108	.094	.077	.065	.031	.025	.021	
10.0	.266	.210	.173	.229	.182	.151	.159	.128	.107	.093	.076	.064	.030	.025	.021	

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 Test System: GO-2000B SYSTEM V1.0.203
 Humidity: 65.0%
 Test Distance: 5.500m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:119.0V I:0.2085A P:23.74W PF:0.9569 Lamp Flux:1676x1 lm										
NAME: Ringer 28L					TYPE:WW			WEIGHT:		
DIMENSION:					SPECIFICATION:			SERIAL No.:2015072802		
MANUFACTURER: LF Illumination, LLC					SURFACE:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.2	17.5	16.7	18.0	18.6	16.1	17.5	16.7	18.0	18.5
3H	18.3	19.5	18.8	20.0	20.6	18.2	19.4	18.8	20.0	20.6
4H	19.4	20.6	20.0	21.1	21.8	19.4	20.5	19.9	21.1	21.7
6H	20.6	21.7	21.2	22.3	22.9	20.5	21.6	21.1	22.2	22.9
8H	21.3	22.3	21.9	22.9	23.6	21.2	22.2	21.8	22.8	23.5
12H	22.0	23.0	22.6	23.6	24.3	21.9	22.9	22.5	23.5	24.2
4H 2H	16.8	18.0	17.4	18.5	19.2	16.8	17.9	17.4	18.5	19.1
3H	19.1	20.1	19.7	20.7	21.4	19.1	20.1	19.7	20.7	21.4
4H	20.4	21.3	21.1	22.0	22.7	20.4	21.3	21.0	21.9	22.6
6H	21.8	22.6	22.5	23.3	24.0	21.7	22.6	22.4	23.2	24.0
8H	22.6	23.3	23.3	24.0	24.8	22.5	23.3	23.2	23.9	24.7
12H	23.5	24.2	24.1	24.8	25.6	23.3	24.1	24.0	24.7	25.5
8H 4H	20.9	21.6	21.5	22.3	23.1	20.8	21.6	21.5	22.2	23.0
6H	22.5	23.1	23.2	23.8	24.7	22.4	23.1	23.1	23.8	24.6
8H	23.5	24.0	24.2	24.7	25.6	23.4	23.9	24.1	24.7	25.5
12H	24.5	25.0	25.3	25.8	26.6	24.4	24.9	25.2	25.7	26.5
12H 4H	20.9	21.6	21.6	22.3	23.1	20.9	21.6	21.6	22.3	23.1
6H	22.7	23.3	23.4	24.0	24.8	22.6	23.2	23.3	23.9	24.7
8H	23.7	24.2	24.5	25.0	25.8	23.7	24.2	24.4	24.9	25.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1676 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.8)

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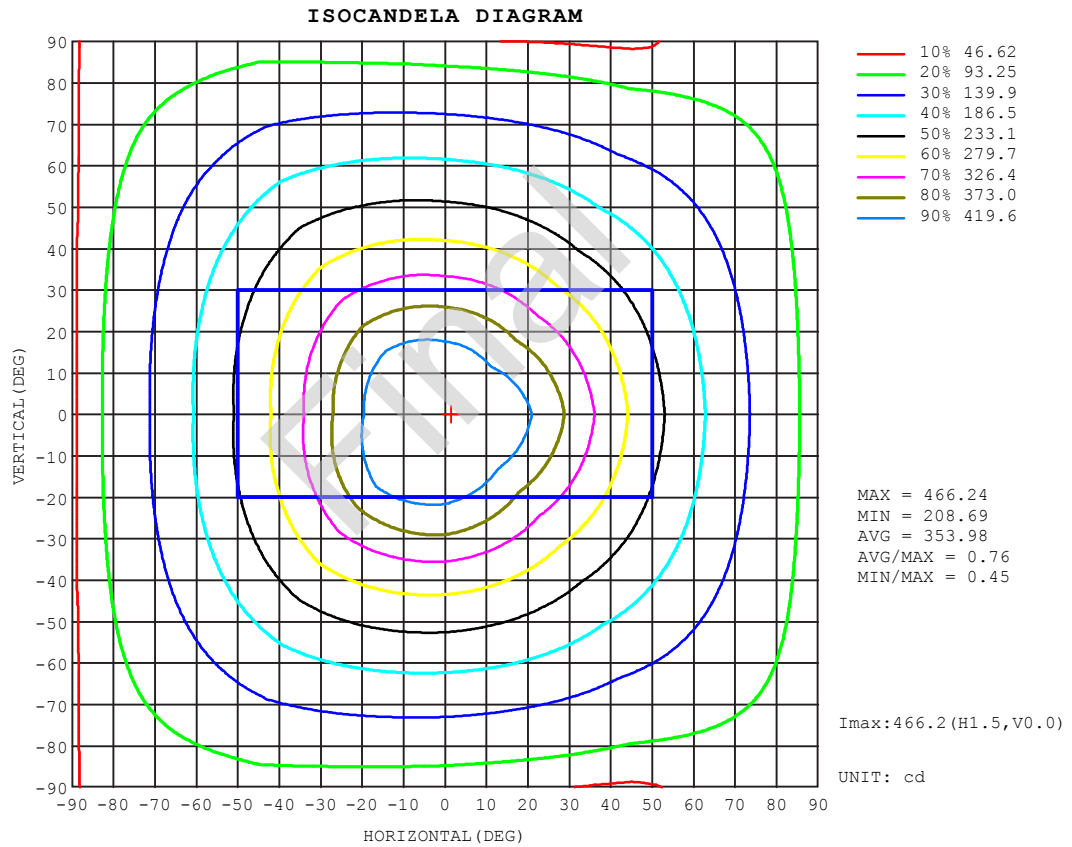
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	50	38	32	49	38	31	47	37	31	24
0.80	60	47	40	58	46	39	55	45	38	30
1.00	67	55	47	65	54	46	61	54	45	36
1.25	74	62	54	72	61	53	67	58	51	42
1.50	79	68	60	76	66	58	71	62	56	46
2.00	86	76	68	83	74	67	77	69	63	52
2.50	90	81	74	87	78	72	80	73	68	55
3.00	94	85	79	90	82	76	83	77	72	58
4.00	98	91	85	94	88	83	87	82	77	63
5.00	101	95	90	97	91	87	89	85	81	66
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

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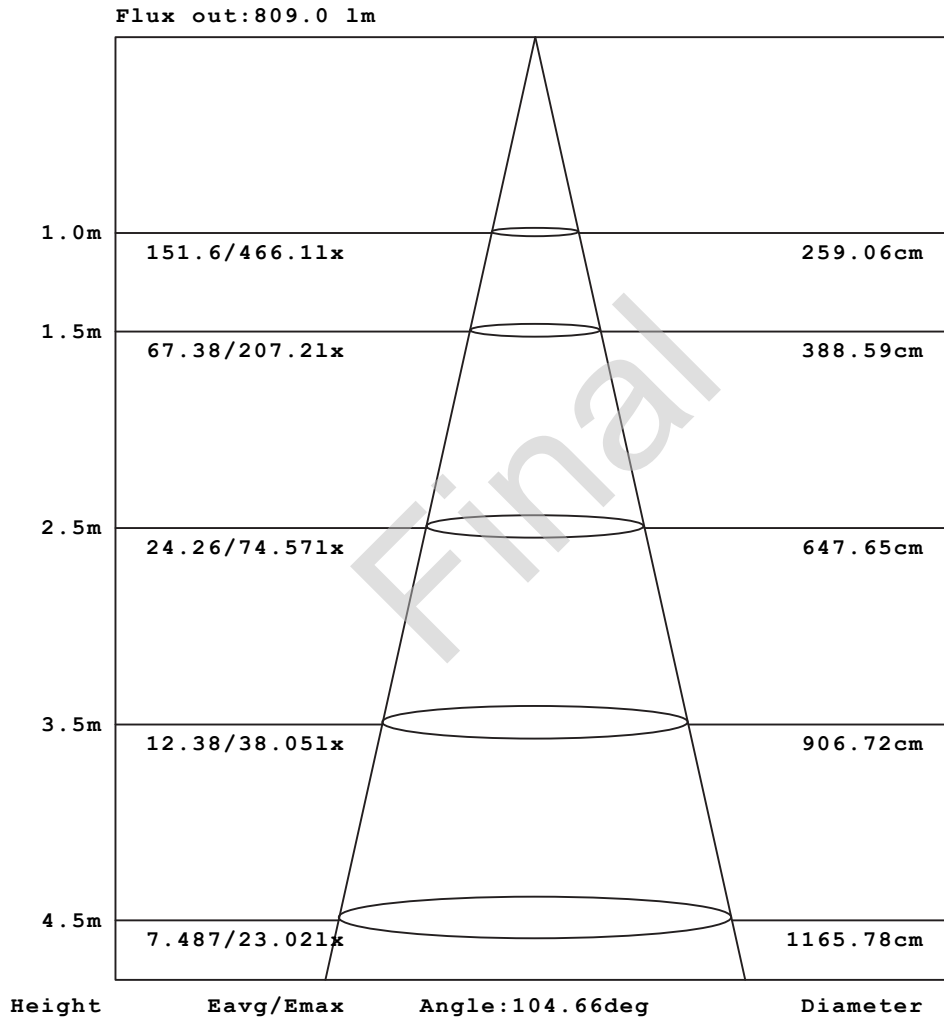


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 Test System: GO-2000B SYSTEM V1.0.203
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 Test Distance: 5.500m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.0V I:0.2085A P:23.74W PF:0.9569 Lamp Flux:1676x1 lm		
NAME: Ringer 28L	TYPE:WW	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:2015072802
MANUFACTURER: LF Illumination, LLC	SURFACE:	PROTECTION ANGLE:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2015-07-28

Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System: GO-2000B SYSTEM V1.0.203
 Humidity:65.0%
 Test Distance:5.500m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.0V I:0.2085A P:23.74W PF:0.9569 Lamp Flux:1676x1 lm		
NAME: Ringer 28L	TYPE:WW	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:2015072802
MANUFACTURER: LF Illumination, LLC	SURFACE:	PROTECTION ANGLE:

Table--1

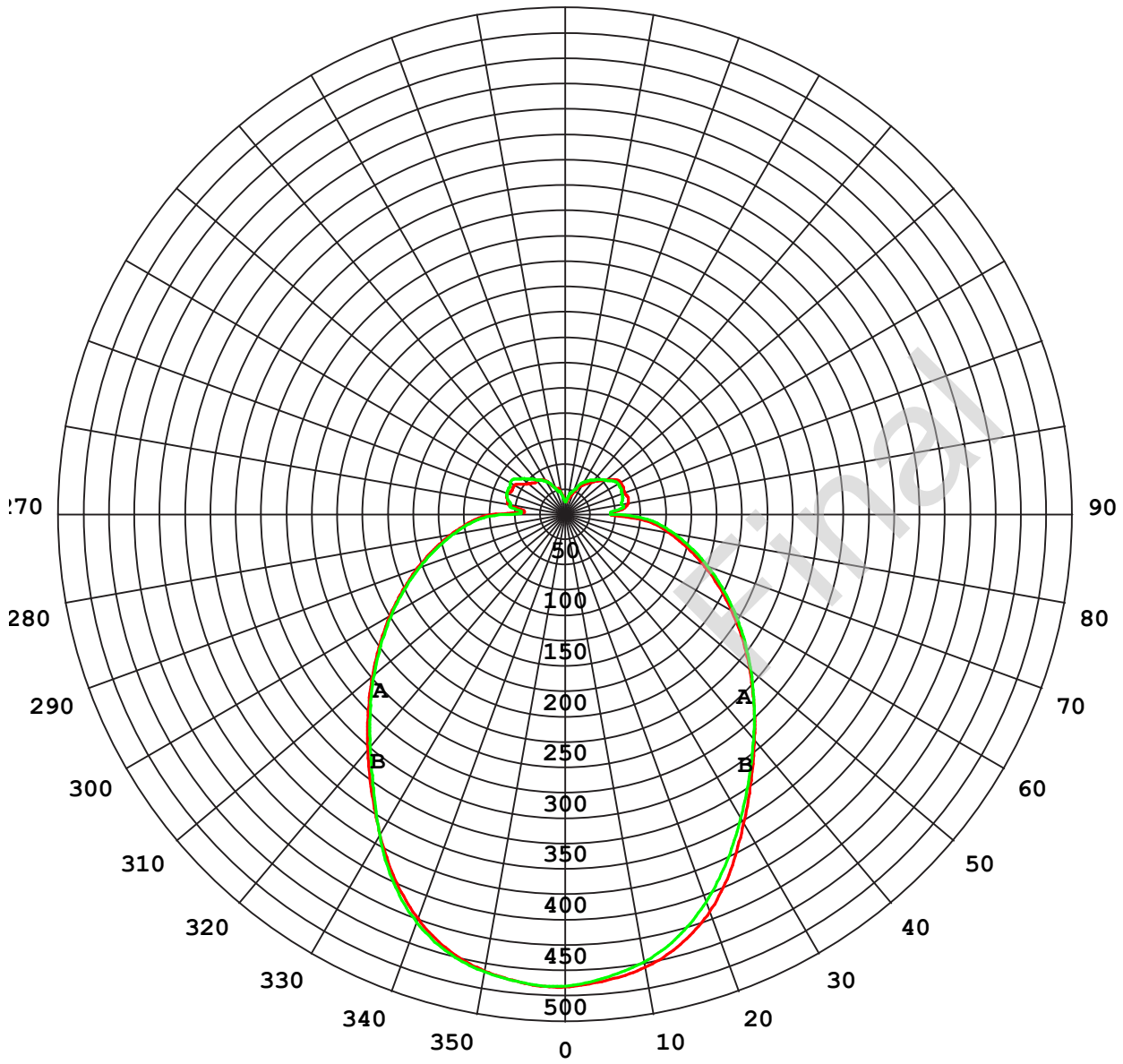
UNIT: cd

C (DEG) (DEG)	0	45	90	135	180	225	270	315										
0	466	465	465	462	466	465	465	462										
5	464	461	464	464	461	463	458	454										
10	457	452	458	460	454	456	448	443										
15	445	436	447	452	439	444	431	423										
20	424	410	428	438	417	423	407	399										
25	398	378	401	414	386	396	378	370										
30	365	345	365	377	352	365	346	339										
35	333	314	330	342	320	334	316	308										
40	303	286	300	312	291	306	290	281										
45	275	260	272	284	263	280	263	254										
50	248	235	246	257	238	255	239	229										
55	223	211	221	231	213	231	216	205										
60	200	187	198	206	190	207	193	182										
65	177	165	175	183	167	184	171	161										
70	155	143	153	160	145	162	150	140										
75	134	123	132	139	124	140	129	120										
80	114	103	112	118	104	119	109	101										
85	95.4	83.5	92.8	97.9	82.5	99.1	88.9	79.3										
90	73.1	41.4	58.6	70.8	45.6	71.4	48.6	42.1										
95	40.8	47.8	44.6	44.5	55.5	47.0	50.1	53.0										
100	56.7	57.3	55.4	55.6	63.2	61.8	57.0	57.0										
105	59.2	57.5	58.8	62.2	64.6	62.4	58.9	61.8										
110	60.9	57.8	61.5	64.7	62.5	63.5	60.0	62.4										
115	57.9	55.3	61.7	65.6	63.8	61.2	61.3	61.4										
120	57.9	53.3	62.7	64.2	63.3	59.8	60.7	59.8										
125	52.3	53.4	61.7	62.5	60.2	58.9	58.0	55.1										
130	47.8	49.3	55.4	57.4	53.4	56.4	53.0	50.1										
135	44.4	44.9	50.0	52.0	47.5	53.0	49.4	45.2										
140	43.7	42.8	45.0	47.3	41.7	47.7	44.8	41.8										
145	42.0	40.1	41.8	42.5	37.6	42.4	41.2	38.4										
150	38.6	36.1	37.8	38.4	33.3	38.8	37.1	34.4										
155	31.5	29.4	33.0	34.0	28.4	33.8	31.3	28.4										
160	27.8	25.3	27.0	28.0	22.5	26.9	25.7	23.7										
165	27.0	24.4	23.4	23.6	18.0	22.1	21.6	21.4										
170	21.6	18.8	20.1	20.9	15.7	19.8	18.2	17.2										
175	16.3	13.8	14.6	15.8	13.0	14.3	13.2	13.2										
180	13.3	13.2	13.0	13.8	13.3	13.2	13.2	13.7										

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2015-07-28

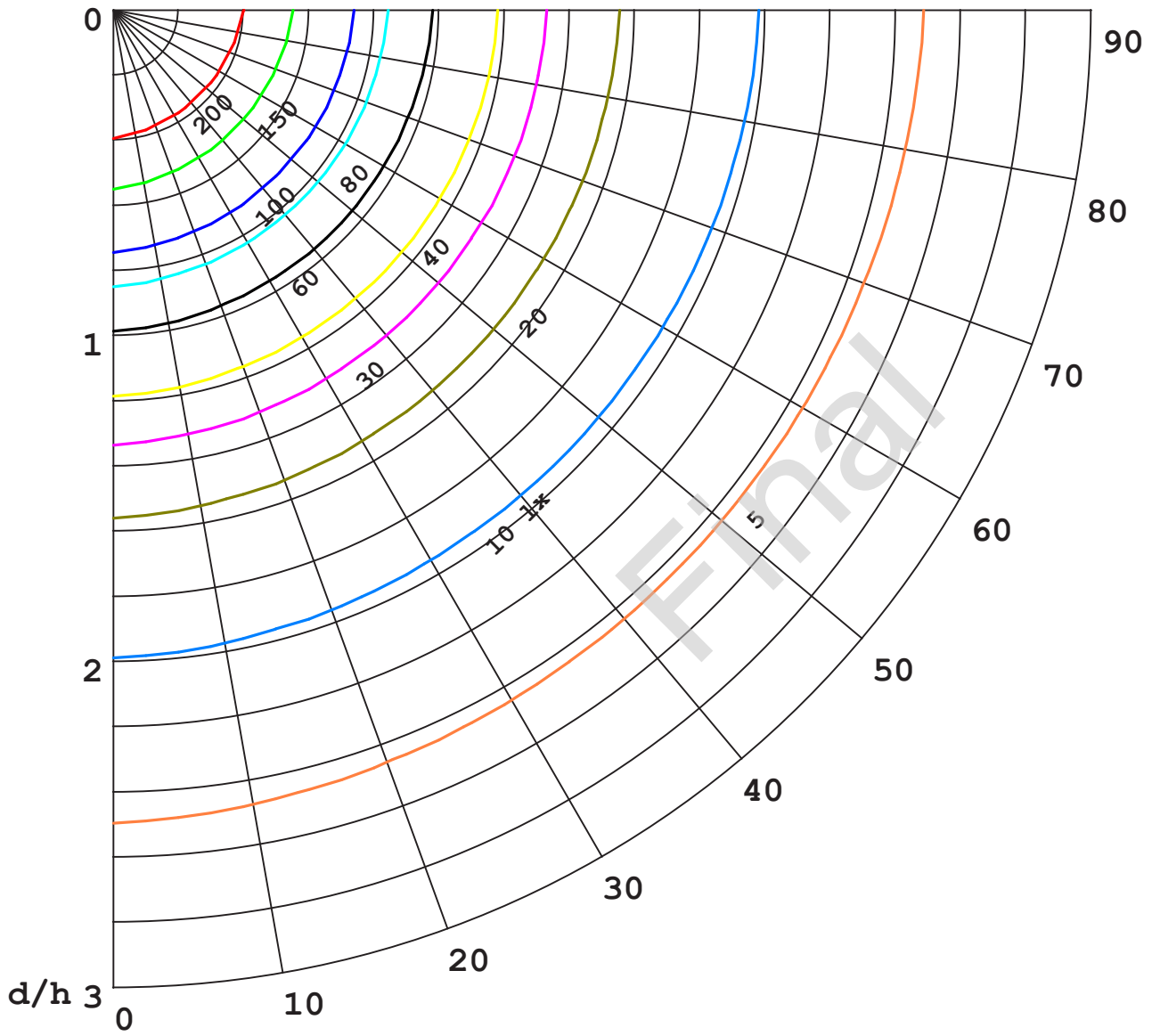
Range: 0 - 180DEG
 Interval: 0.5DEG
 Test System: GO-2000B SYSTEM V1.0.203
 Humidity: 65.0%
 Test Distance: 5.500m [K=1.0000]
 Remarks:

I (cd)



1000 lm

$K = 1$



F = 5000 lm
K = 0.7
Hcc = 0.0 m
Hfc = 0.0 m
Eave = 100 lx

	Pcc	Pw	Pfc
— (thin)	70	50	30
— (thick)	50	30	20

