

Luminaire Photograph



Light Output Ratio:	49.8%	
Luminaire Power:	14.73 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DICK
Test Date: 2023-04-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30H1000-A-83 Ra: 97
LENS: HLTJ0028I HL-52 22R
DRIVER: PRO-UA420-W 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

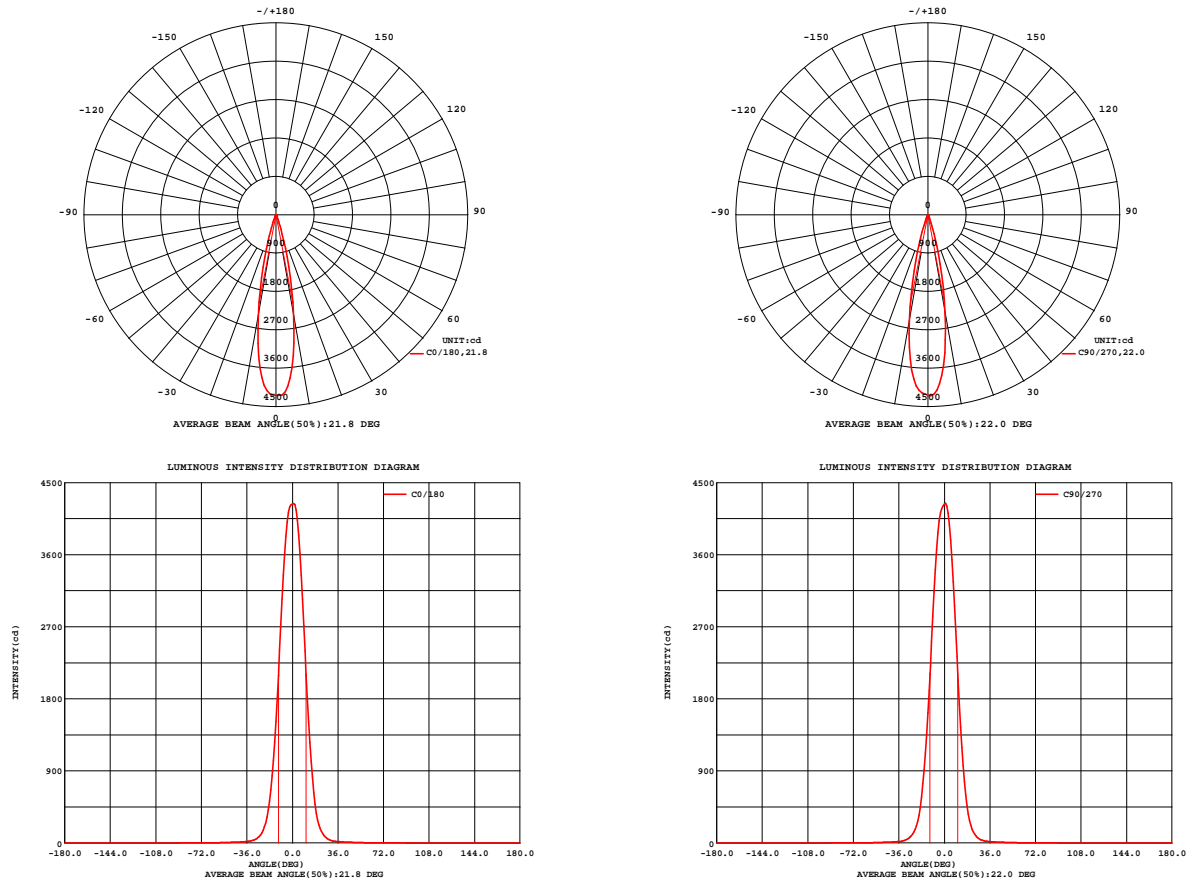


Fig. C0/C180

Fig. C90/C270

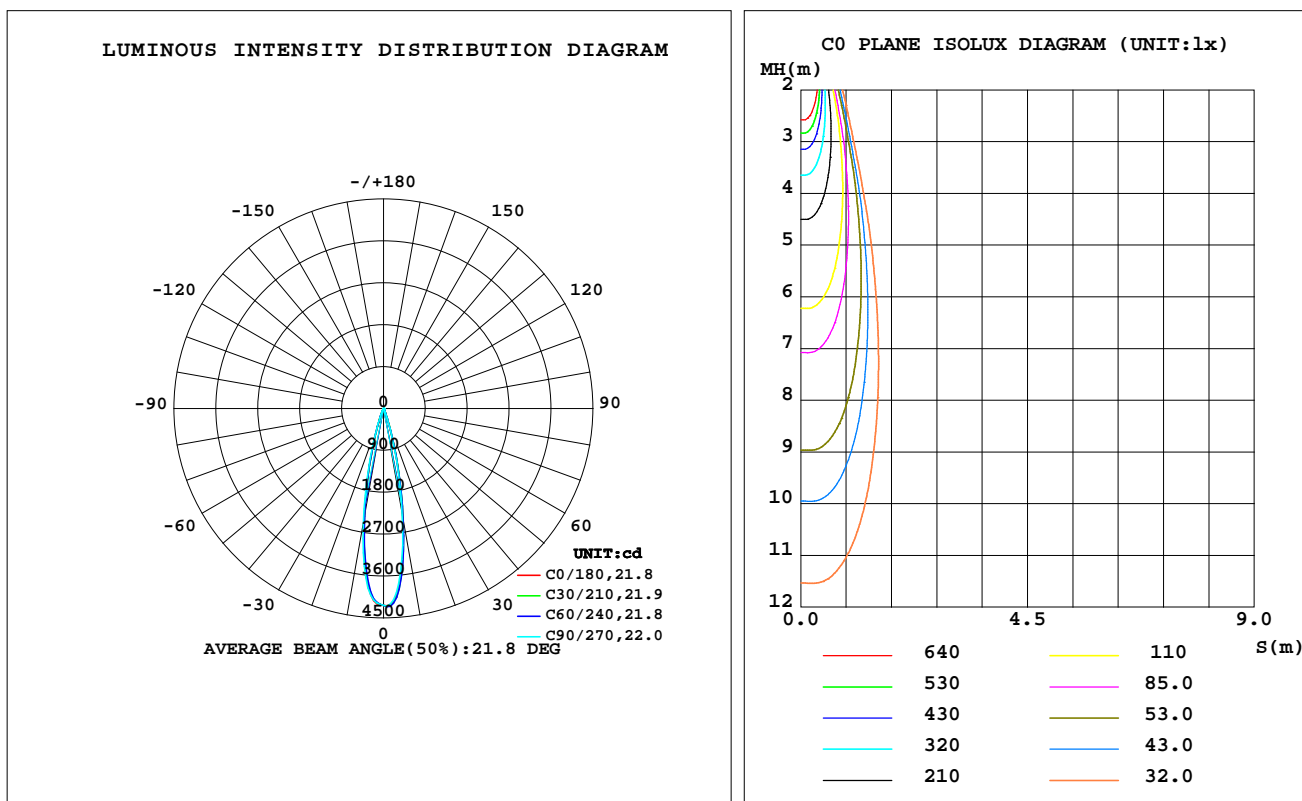
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.16V I:0.0698A P:14.725W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 46.98 lm/W			
MODEL	BRIDGELUX	I _{max} (cd)	4255	S/MH(C0/180)	0.37
NOMINAL POWER(W)	15	LOR(%)	49.8	S/MH(C90/270)	0.37
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	691.85	η UP,DN(C0-180)	0.0,24.5
NOMINAL FLUX(lm)	1388.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,25.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	49.8	CIBSE SHR MAX	0.30



C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30H1000-A-83 Ra:97
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ZONAL FLUX DIAGRAM

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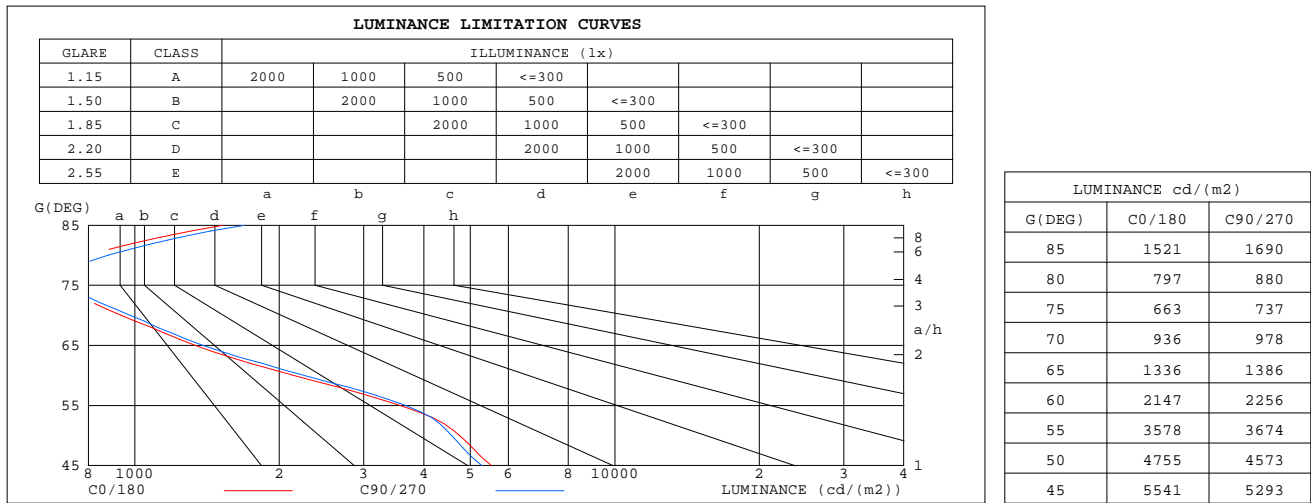
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2400	2444	2330	2379	2408	2373	2514	2453	0- 10	318.0	318.0	46,22.9
20	285.3	296.2	276.4	283.1	320.8	317.1	342.7	319.2	10- 20	293.5	611.5	88.4,44
30	35.52	36.28	33.32	34.62	38.91	40.37	40.08	37.93	20- 30	53.21	664.7	96.1,47.9
40	12.65	12.49	12.40	12.73	13.19	13.34	13.27	13.05	30- 40	13.12	677.9	98,48.8
50	7.213	6.937	7.009	7.248	7.333	7.287	7.504	7.268	40- 50	7.340	685.2	99,49.3
60	2.533	2.533	2.689	2.773	2.946	2.696	2.493	2.551	50- 60	4.419	689.6	99.7,49.7
70	0.7558	0.7609	0.7977	0.7926	0.8363	0.7783	0.7242	0.7725	60- 70	1.467	691.1	99.9,49.8
80	0.3264	0.3327	0.3644	0.3379	0.3147	0.3041	0.2975	0.3125	70- 80	0.4909	691.6	100,49.8
90	0	0	0	0	0	0	0	0	80- 90	0.2751	691.9	100,49.8
100	0	0	0	0	0	0	0	0	90-100	0	691.9	100,49.8
110	0	0	0	0	0	0	0	0	100-110	0	691.9	100,49.8
120	0	0	0	0	0	0	0	0	110-120	0	691.9	100,49.8
130	0	0	0	0	0	0	0	0	120-130	0	691.9	100,49.8
140	0	0	0	0	0	0	0	0	130-140	0	691.9	100,49.8
150	0	0	0	0	0	0	0	0	140-150	0	691.9	100,49.8
160	0	0	0	0	0	0	0	0	150-160	0	691.9	100,49.8
170	0	0	0	0	0	0	0	0	160-170	0	691.9	100,49.8
180	0	0	0	0	0	0	0	0	170-180	0	691.9	100,49.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:DICK
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.16V I:0.0698A P:14.725W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:



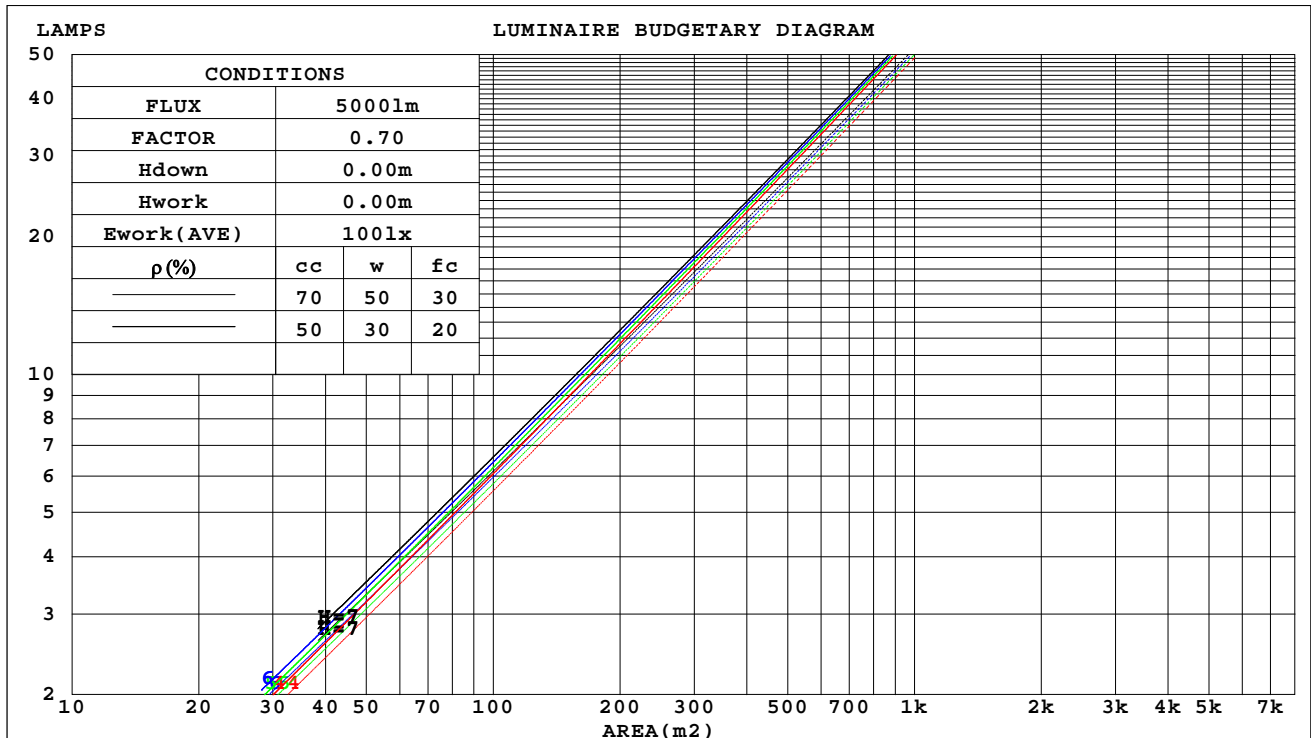
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	.59	.59	.59	.58	.58	.58	.55	.55	.55	.53	.53	.53	.51	.51	.51	.50														
1.0	.56	.56	.55	.55	.55	.54	.53	.53	.52	.52	.51	.51	.50	.50	.49	.48														
2.0	.54	.53	.52	.53	.52	.51	.52	.51	.50	.50	.50	.49	.49	.48	.48	.47														
3.0	.52	.50	.49	.51	.50	.49	.50	.49	.48	.49	.48	.47	.48	.47	.47	.46														
4.0	.50	.48	.47	.50	.48	.47	.49	.47	.46	.48	.47	.46	.47	.46	.45	.45														
5.0	.49	.47	.45	.48	.47	.45	.48	.46	.45	.47	.46	.45	.46	.45	.44	.44														
6.0	.47	.45	.44	.47	.45	.44	.46	.45	.44	.46	.44	.43	.45	.44	.43	.43														
7.0	.46	.44	.43	.46	.44	.43	.45	.44	.43	.45	.43	.42	.44	.43	.42	.42														
8.0	.45	.43	.42	.45	.43	.42	.44	.43	.42	.44	.42	.41	.43	.42	.41	.41														
9.0	.44	.42	.41	.44	.42	.41	.43	.42	.41	.43	.42	.41	.43	.41	.40	.40														
10.0	.43	.41	.40	.43	.41	.40	.42	.41	.40	.42	.41	.40	.42	.41	.40	.39														



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          30minutes warm-up

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WEC AND CCEC

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NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.064	.036	.012	.061	.035	.011	.055	.031	.010	.049	.028	.009	.044	.025	.008	
2.0	.059	.032	.010	.056	.031	.010	.051	.028	.009	.046	.026	.008	.042	.024	.008	
3.0	.054	.029	.009	.052	.028	.008	.048	.026	.008	.044	.024	.007	.041	.022	.007	
4.0	.051	.026	.008	.049	.026	.008	.045	.024	.007	.042	.023	.007	.039	.021	.006	
5.0	.047	.024	.007	.046	.024	.007	.043	.022	.007	.040	.021	.006	.038	.020	.006	
6.0	.045	.022	.006	.043	.022	.006	.041	.021	.006	.038	.020	.006	.036	.019	.006	
7.0	.042	.021	.006	.041	.020	.006	.039	.020	.006	.037	.019	.005	.035	.018	.005	
8.0	.040	.020	.005	.039	.019	.005	.037	.019	.005	.035	.018	.005	.034	.017	.005	
9.0	.038	.018	.005	.037	.018	.005	.036	.018	.005	.034	.017	.005	.032	.016	.005	
10.0	.036	.017	.005	.036	.017	.005	.034	.017	.005	.033	.016	.005	.031	.016	.005	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.095	.095	.095	.081	.081	.081	.055	.055	.055	.032	.032	.032	.010	.010	.010		
1.0	.084	.079	.074	.072	.067	.064	.049	.046	.044	.028	.027	.026	.009	.009	.008		
2.0	.074	.066	.059	.064	.057	.051	.044	.039	.036	.025	.023	.021	.008	.007	.007		
3.0	.067	.056	.048	.057	.049	.042	.039	.034	.029	.023	.020	.017	.007	.006	.006		
4.0	.060	.049	.040	.052	.042	.035	.035	.029	.024	.020	.017	.014	.007	.006	.005		
5.0	.055	.042	.034	.047	.037	.029	.032	.026	.021	.019	.015	.012	.006	.005	.004		
6.0	.050	.037	.028	.043	.032	.025	.030	.023	.017	.017	.013	.010	.006	.004	.003		
7.0	.046	.033	.024	.040	.029	.021	.027	.020	.015	.016	.012	.009	.005	.004	.003		
8.0	.043	.030	.021	.037	.026	.018	.025	.018	.013	.015	.011	.008	.005	.004	.003		
9.0	.040	.027	.018	.034	.023	.016	.024	.016	.011	.014	.010	.007	.004	.003	.002		
10.0	.037	.024	.016	.032	.021	.014	.022	.015	.010	.013	.009	.006	.004	.003	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2304280533		
MFR.: RISE					SUR.: 0.002374625m2			Shielding 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	5.8	6.4	6.0	6.6	6.7	5.6	6.2	5.8	6.4	6.5
3H	5.9	6.4	6.1	6.6	6.8	5.7	6.3	5.9	6.4	6.6
4H	5.9	6.4	6.1	6.6	6.8	5.7	6.2	5.9	6.4	6.6
6H	5.8	6.3	6.1	6.6	6.8	5.7	6.2	6.0	6.4	6.6
8H	5.8	6.3	6.1	6.6	6.8	5.7	6.2	6.0	6.4	6.7
12H	5.9	6.3	6.2	6.6	6.9	5.8	6.2	6.1	6.5	6.7
4H 2H	5.9	6.4	6.1	6.6	6.8	5.7	6.2	5.9	6.4	6.6
3H	5.9	6.4	6.2	6.7	6.9	5.8	6.2	6.1	6.5	6.8
4H	5.9	6.3	6.2	6.6	6.9	5.8	6.2	6.1	6.5	6.8
6H	5.9	6.3	6.3	6.6	7.0	5.8	6.2	6.1	6.5	6.8
8H	5.9	6.3	6.3	6.6	7.0	5.8	6.2	6.2	6.5	6.9
12H	6.0	6.3	6.4	6.7	7.1	5.9	6.3	6.3	6.6	7.0
8H 4H	5.8	6.2	6.2	6.5	6.9	5.7	6.0	6.0	6.4	6.7
6H	5.8	6.1	6.3	6.5	6.9	5.7	6.0	6.1	6.4	6.8
8H	5.9	6.2	6.4	6.6	7.0	5.8	6.1	6.3	6.5	6.9
12H	6.1	6.3	6.5	6.7	7.2	6.0	6.2	6.5	6.7	7.1
12H 4H	5.8	6.1	6.2	6.5	6.8	5.6	5.9	6.0	6.3	6.7
6H	5.8	6.1	6.3	6.5	6.9	5.7	5.9	6.1	6.4	6.8
8H	5.9	6.1	6.4	6.6	7.0	5.8	6.0	6.3	6.5	6.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.7					+ 1.1 / - 1.5				
1.5H	+ 1.1 / - 0.9					+ 1.0 / - 0.8				
2.0H	+ 2.2 / - 3.2					+ 2.0 / - 3.2				

CIE Pub.117, 1389 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.1)
Area: 0.00237463 m2

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UTILIZATION FACTORS TABLE

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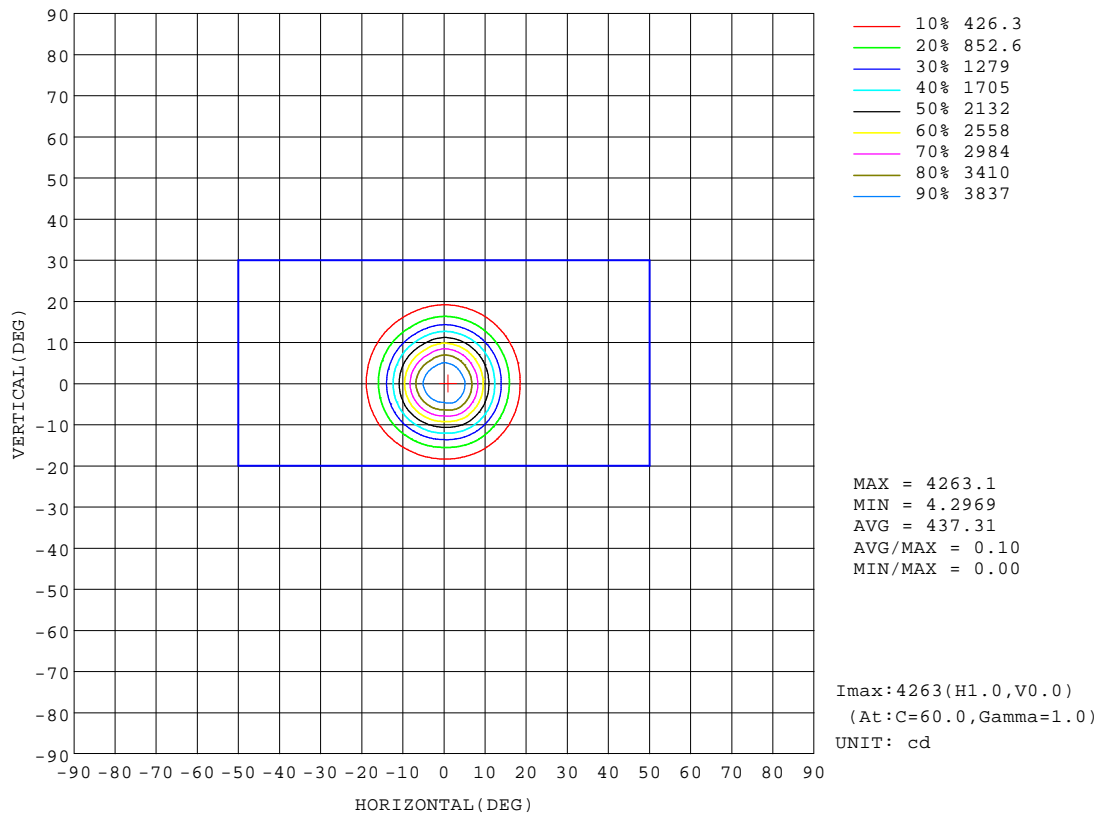
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	42	40	45	42	40	44	42	40	39
0.80	48	46	44	48	46	44	48	45	44	42
1.00	50	48	46	50	48	46	49	48	46	44
1.25	52	50	48	52	50	48	51	49	48	46
1.50	53	51	50	53	51	50	52	50	49	47
2.00	55	53	51	54	52	51	53	51	50	48
2.50	55	54	52	55	53	52	53	52	51	48
3.00	56	54	53	55	54	53	54	52	52	48
4.00	57	56	55	56	55	54	54	53	53	49
5.00	58	57	56	57	56	55	55	54	53	50
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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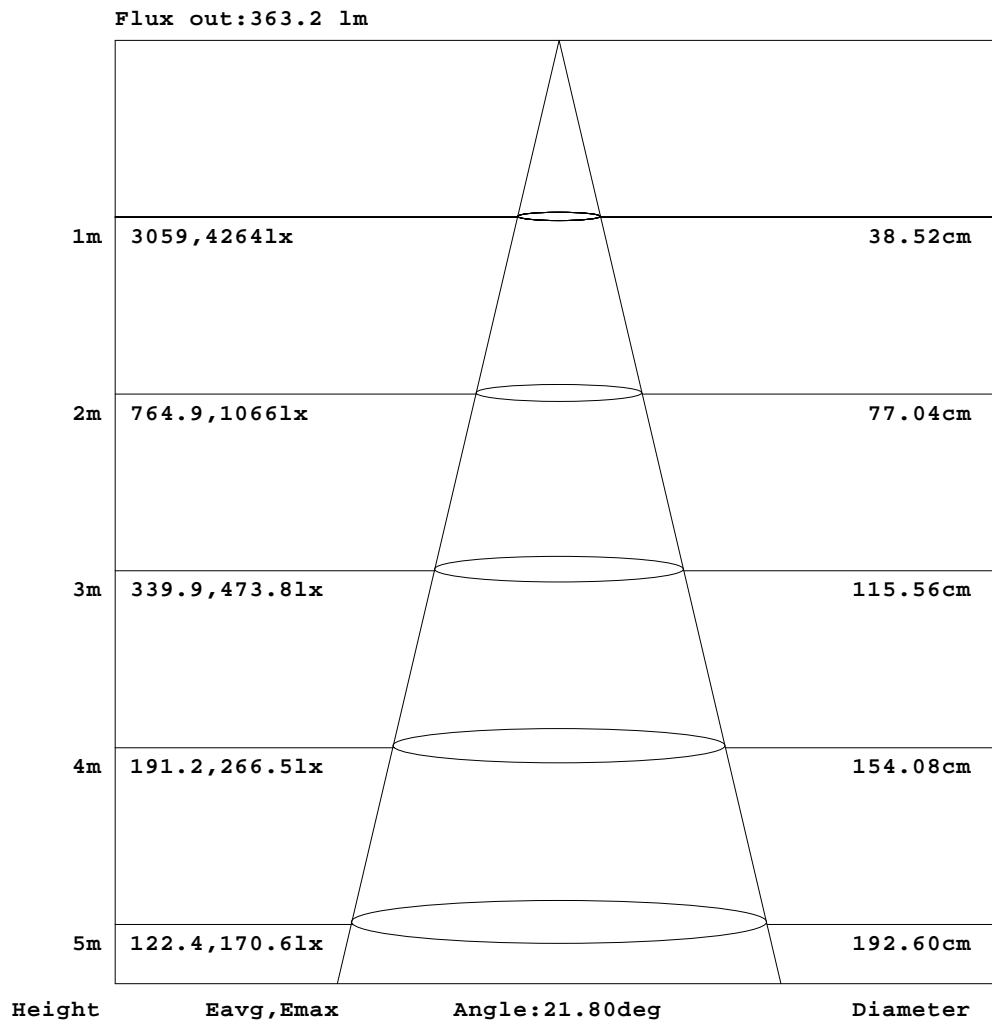


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AAI Figure

Test:U:220.16V I:0.0698A P:14.725W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:



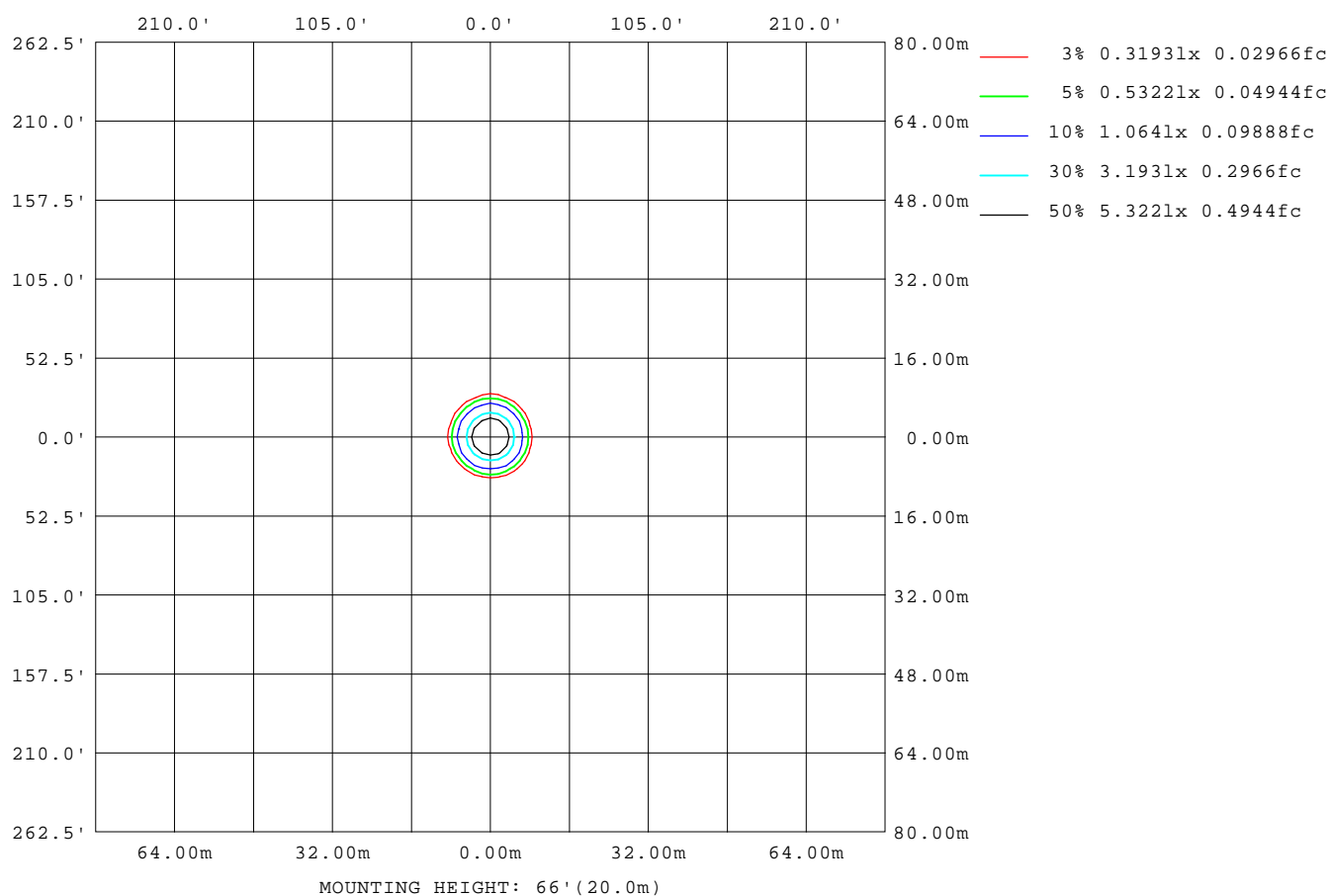
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DICK
Test Date:2023-04-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30H1000-A-83 Ra:97
LENS: HLTJ0028I HL-52 22R
DRIVER:PRO-UA420-W 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.16V I:0.0698A P:14.725W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:DICK
Test Date:2023-04-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30H1000-A-83 Ra:97
LENS: HLTJ0028I HL-52 22R
DRIVER:PRO-UA420-W 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.16V I:0.0698A P:14.725W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

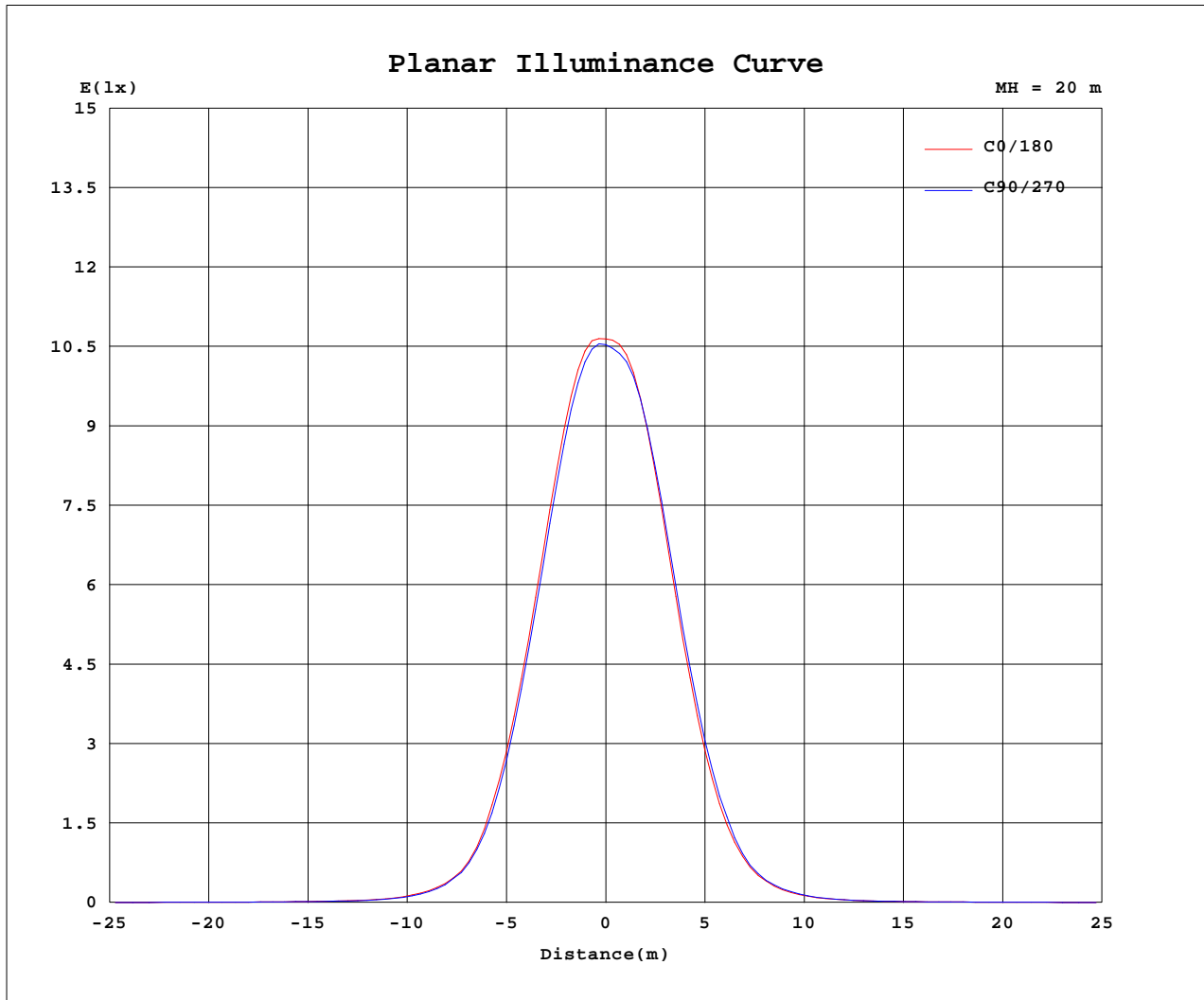
AvgL	cd/m2
L_0~180(65)av	1419
L_0~180(75)av	685
L_0~180(85)av	1497
L_90~270(65)av	1340
L_90~270(75)av	683
L_90~270(85)av	1531
L_45(65)av	1369
L_45(75)av	687
L_45(85)av	1480

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DICK
Test Date:2023-04-28

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30H1000-A-83 Ra:97
LENS: HLTJ0028I HL-52 22R
DRIVER:PRO-UA420-W 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DICK
 Test Date: 2023-04-28

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRE-30H1000-A-83 Ra: 97
 LENS: HLTJ0028I HL-52 22R
 DRIVER: PRO-UA420-W 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.16V I:0.0698A P:14.725W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280533
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231	4231						
5	3844	3871	3889	3780	3791	3824	3831	3792	3764	3866	3851	3822						
10	2400	2438	2450	2330	2352	2406	2408	2390	2356	2514	2478	2427						
15	1021	1044	1037	964	973	1018	1033	1033	1027	1121	1105	1065						
20	285	299	293	276	273	293	321	320	314	343	333	305						
25	95.4	101	96.3	88.9	91.1	93.0	103	108	107	112	108	99.7						
30	35.5	36.9	35.6	33.3	34.8	34.4	38.9	41.0	39.8	40.1	39.9	36.0						
35	19.2	19.7	19.2	18.8	19.7	18.7	20.4	20.9	20.1	20.0	20.9	18.8						
40	12.7	12.8	12.2	12.4	13.1	12.3	13.2	13.6	13.0	13.3	13.6	12.5						
45	9.25	9.30	8.71	8.92	9.27	9.17	9.40	9.57	9.43	9.75	9.56	9.11						
50	7.21	7.17	6.71	7.01	7.19	7.30	7.33	7.27	7.30	7.50	7.36	7.17						
55	4.84	4.91	4.63	5.03	5.12	5.18	5.32	5.12	5.07	4.97	4.98	4.97						
60	2.53	2.60	2.47	2.69	2.76	2.78	2.95	2.72	2.67	2.49	2.49	2.61						
65	1.33	1.38	1.31	1.40	1.45	1.43	1.52	1.38	1.36	1.29	1.32	1.37						
70	0.76	0.77	0.75	0.80	0.80	0.78	0.84	0.79	0.77	0.72	0.75	0.79						
75	0.40	0.42	0.42	0.45	0.45	0.42	0.44	0.41	0.42	0.39	0.41	0.43						
80	0.33	0.33	0.33	0.36	0.35	0.33	0.31	0.31	0.30	0.30	0.30	0.32						
85	0.31	0.32	0.31	0.35	0.33	0.32	0.31	0.29	0.29	0.28	0.29	0.31						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

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