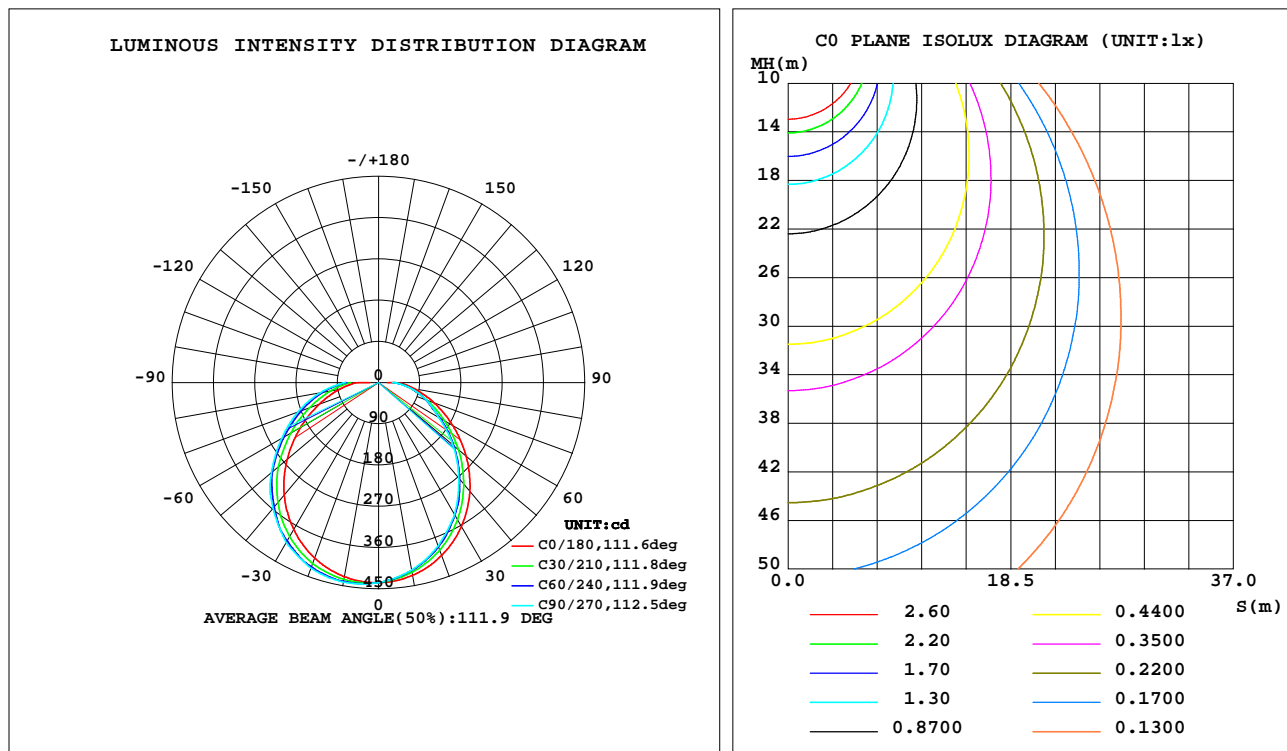


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.40 lm/W
MODEL		I _{max} (cd)	442.1	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	17	LOR(%)	100.0	S/MH(C90/270)	1.36	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1337.8	h UP,DN(C0-180)	0.0,44.4	
NOMINAL FLUX(lm)	1337.8	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,55.6	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	h down(%)	100.0	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	434.1	429.0	427.7	430.2	435.2	439.3	440.9	438.3	0- 5	10.41	10.41	0.78,0.78
10	426.9	417.8	415.7	420.0	430.1	438.5	442.1	436.6	5- 10	30.86	41.26	3.08,3.08
15	416.3	403.1	399.1	406.3	420.4	433.9	438.3	430.7	10- 15	50.23	91.49	6.84,6.84
20	401.7	384.8	379.5	388.4	407.6	424.6	431.2	420.8	15- 20	67.84	159.3	11.9,11.9
25	383.7	362.8	355.8	367.3	390.5	411.8	417.3	406.9	20- 25	83.04	242.4	18.1,18.1
30	362.0	337.7	332.1	342.8	370.1	394.4	403.3	388.5	25- 30	95.30	337.7	25.2,25.2
35	337.0	310.5	302.2	315.8	346.6	373.6	380.8	367.1	30- 35	104.3	442.0	33,33
40	310.1	282.4	272.4	287.3	320.4	351.1	358.2	343.8	35- 40	109.6	551.5	41.2,41.2
45	280.3	250.6	242.5	255.8	291.4	322.3	334.9	314.4	40- 45	111.4	662.9	49.6,49.6
50	249.5	219.2	211.9	224.6	260.3	293.6	305.1	285.3	45- 50	109.7	772.7	57.8,57.8
55	217.9	188.6	181.1	194.3	228.9	264.7	274.6	256.3	50- 55	104.7	877.4	65.6,65.6
60	186.5	159.5	150.4	164.5	197.2	231.8	244.0	223.8	55- 60	97.00	974.4	72.8,72.8
65	156.7	131.7	130.4	135.8	166.5	200.1	215.4	192.8	60- 65	87.52	1062	79.4,79.4
70	129.0	108.1	110.4	111.3	137.6	170.5	186.7	164.0	65- 70	77.36	1139	85.2,85.2
75	103.2	88.92	90.45	91.48	111.1	143.0	158.1	137.2	70- 75	66.62	1206	90.1,90.1
80	80.19	70.21	70.48	71.95	87.13	116.6	129.4	111.6	75- 80	55.44	1261	94.3,94.3
85	60.21	51.86	50.51	52.77	65.97	91.08	100.7	87.09	80- 85	44.04	1305	97.6,97.6
90	19.95	33.64	30.54	33.68	19.92	66.11	72.09	63.04	85- 90	32.42	1338	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

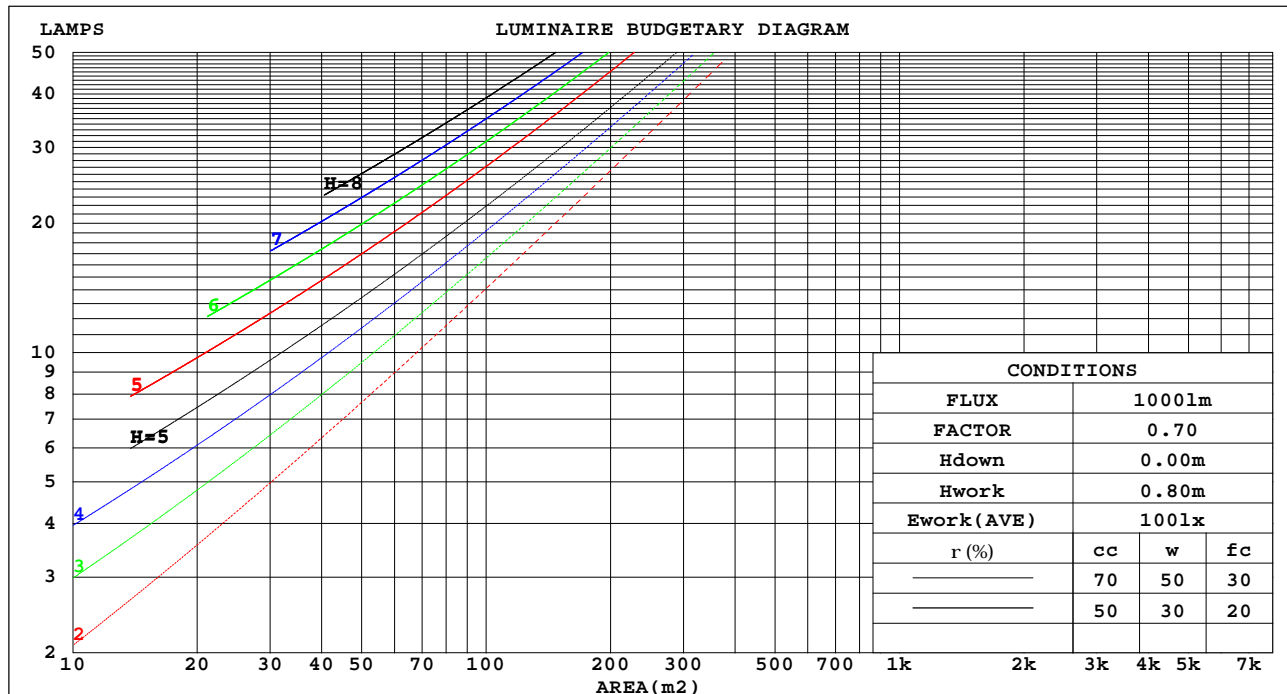
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

WEC AND CCEC

NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:

r _{cc}	80%			70%			50%			30%			10%			0		
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0		
r _{fc}	20%			20%			20%			20%			20%			0		
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)											
0.0																		
1.0	.360	.205	.065	.353	.201	.064	.339	.194	.062	.327	.188	.060	.315	.183	.059			
2.0	.320	.176	.054	.314	.173	.053	.302	.168	.052	.291	.163	.051	.281	.159	.050			
3.0	.289	.154	.046	.283	.152	.046	.273	.148	.045	.263	.144	.044	.254	.140	.043			
4.0	.262	.136	.040	.257	.135	.040	.248	.131	.039	.239	.128	.039	.231	.126	.038			
5.0	.240	.122	.035	.236	.121	.035	.227	.118	.035	.220	.116	.034	.212	.113	.034			
6.0	.221	.111	.032	.217	.110	.032	.210	.107	.031	.203	.105	.031	.196	.103	.031			
7.0	.204	.101	.029	.201	.100	.029	.194	.098	.028	.188	.097	.028	.182	.095	.028			
8.0	.190	.093	.026	.187	.092	.026	.181	.091	.026	.176	.089	.026	.171	.088	.025			
9.0	.178	.086	.024	.175	.085	.024	.170	.084	.024	.165	.083	.024	.160	.081	.023			
10.0	.167	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.151	.076	.022			

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.184	.156	.130	.157	.134	.112	.108	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.168	.114	.072	.144	.099	.062	.099	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.056	.137	.088	.049	.094	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.152	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.005	
6.0	.145	.083	.038	.124	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005	
7.0	.138	.076	.032	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

UGR(Unified Glare Rating) Table

NAME: RB-280-ACEM (AC)					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:20150619-03				
MFR.:					SUR.:0.05					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					19.2	20.7	19.4	20.9	21.2	18.4	20.0	18.7	20.2	20.4
3H					20.9	22.4	21.2	22.6	22.9	20.1	21.6	20.4	21.8	22.1
4H					21.8	23.2	22.1	23.5	23.7	21.1	22.5	21.4	22.7	23.0
6H					22.7	24.0	23.0	24.3	24.6	22.0	23.3	22.3	23.6	23.9
8H					23.2	24.5	23.5	24.8	25.0	22.4	23.7	22.8	24.0	24.3
12H					23.7	24.9	24.0	25.2	25.5	22.9	24.1	23.3	24.4	24.8
4H 2H					19.6	21.1	20.0	21.3	21.6	19.0	20.5	19.4	20.7	21.0
3H					21.6	22.9	22.0	23.2	23.5	21.0	22.3	21.4	22.6	22.9
4H					22.7	23.8	23.1	24.1	24.5	22.1	23.3	22.5	23.6	23.9
6H					23.8	24.8	24.2	25.1	25.5	23.2	24.2	23.6	24.6	25.0
8H					24.3	25.3	24.8	25.7	26.1	23.8	24.7	24.2	25.1	25.5
12H					25.0	25.9	25.4	26.3	26.7	24.4	25.2	24.8	25.6	26.0
8H 4H					23.0	24.0	23.4	24.4	24.7	22.5	23.5	23.0	23.9	24.3
6H					24.3	25.2	24.8	25.6	26.0	23.9	24.7	24.3	25.1	25.6
8H					25.1	25.8	25.5	26.2	26.7	24.6	25.4	25.1	25.8	26.2
12H					25.9	26.6	26.4	27.0	27.5	25.4	26.0	25.9	26.5	27.0
12H 4H					23.1	24.0	23.5	24.4	24.8	22.6	23.5	23.1	23.9	24.3
6H					24.5	25.2	25.0	25.6	26.1	24.1	24.8	24.5	25.2	25.7
8H					25.3	26.0	25.8	26.4	26.9	24.9	25.5	25.4	26.0	26.5
Variations with the observer position at spacings:														
S = 1.0H					+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H					+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H					+ 0.1 / - 0.3					+ 0.1 / - 0.2				

CIE Pub.117 Corrected 1338 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.0)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

UTILIZATION FACTORS TABLE

NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:

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) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	36	30
0.80	65	53	46	64	53	46	63	52	45	38
1.00	74	62	54	72	61	54	70	63	53	46
1.25	81	69	62	79	69	61	76	67	60	53
1.50	85	75	67	84	74	67	81	72	66	58
2.00	92	83	76	90	82	75	87	79	74	65
2.50	96	88	81	94	86	80	90	84	78	69
3.00	100	92	86	98	91	85	93	88	83	74
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	101	96	104	99	95	99	95	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

ISOCANDELA DIAGRAM

NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:

Conical surface Flux(90deg):

662.93 lm

%lum = 49.6%

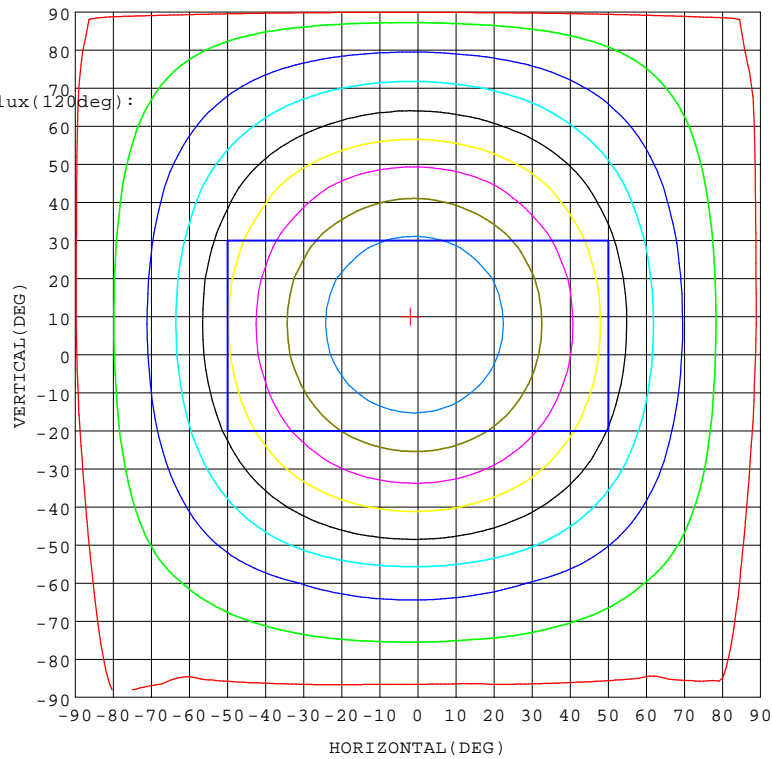
%lamp = 49.6%

Conical surface Flux(120deg):

974.4 lm

%lum = 72.8%

%lamp = 72.8%



10% 44.21
20% 88.43
30% 132.6
40% 176.9
50% 221.1
60% 265.3
70% 309.5
80% 353.7
90% 397.9

MAX = 442.13
MIN = 218.91
AVG = 360.21
AVG/MAX = 0.81
MIN/MAX = 0.50

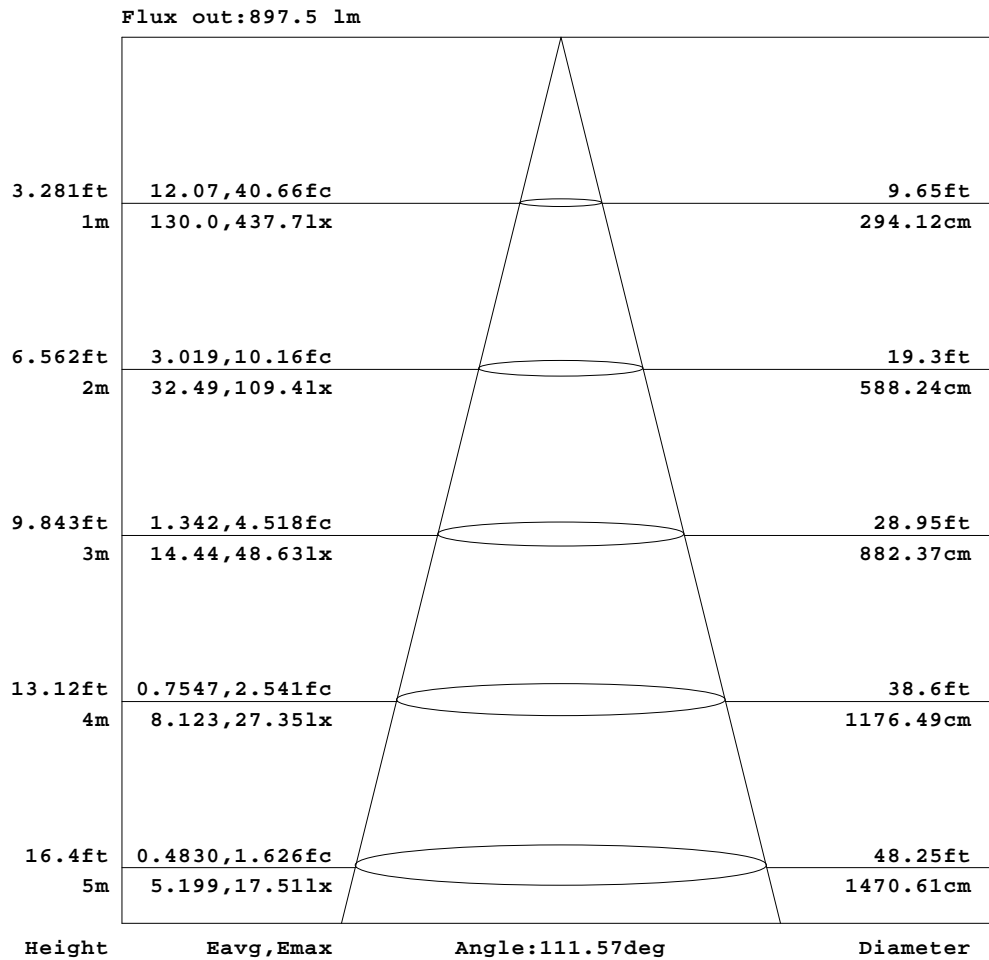
Imax:442.1(H-2.0,V10.0)
(At:C=270.0,Gamma=10.0)
UNIT: cd

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

AAI Figure

NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:



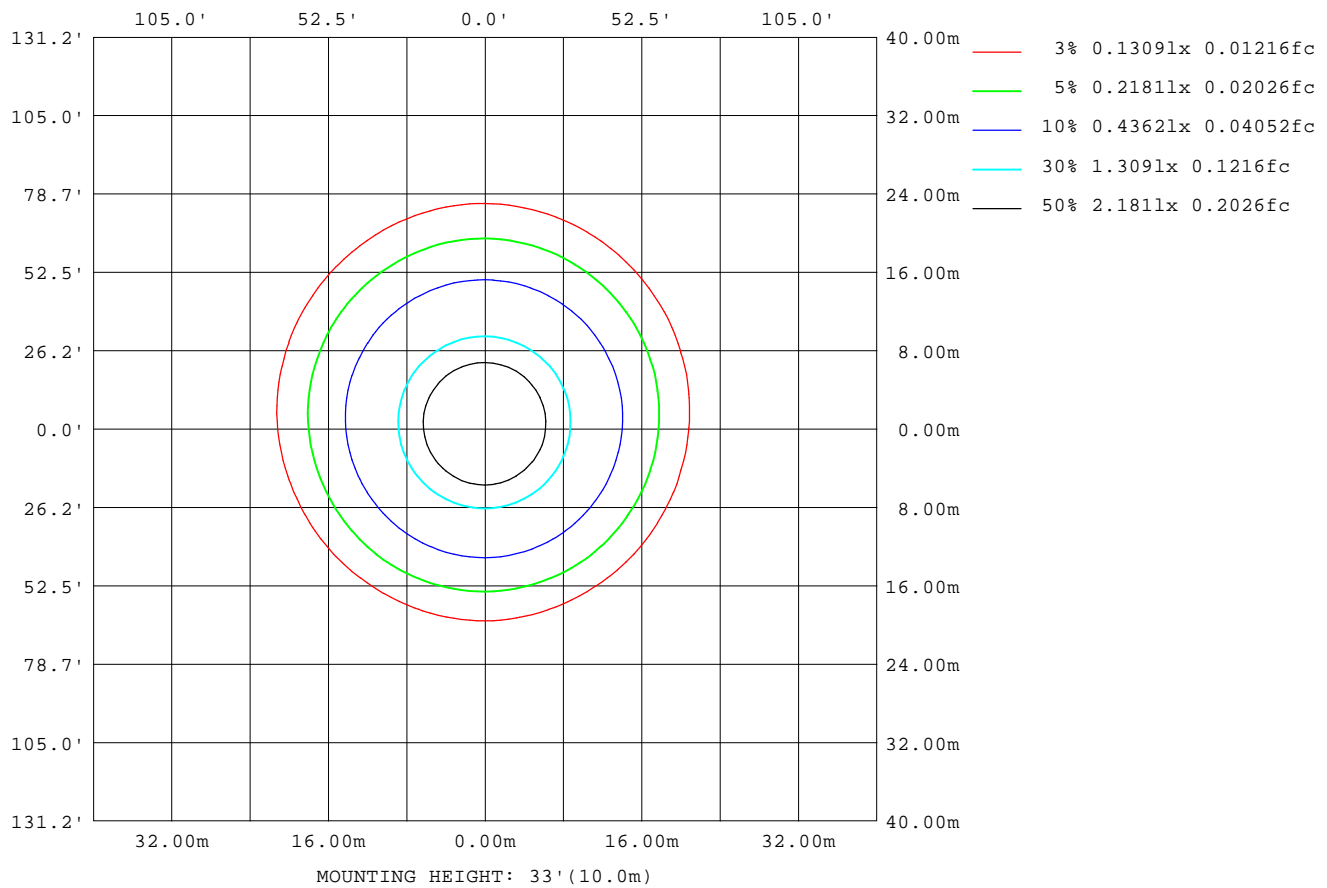
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

ISOLUX DIAGRAM

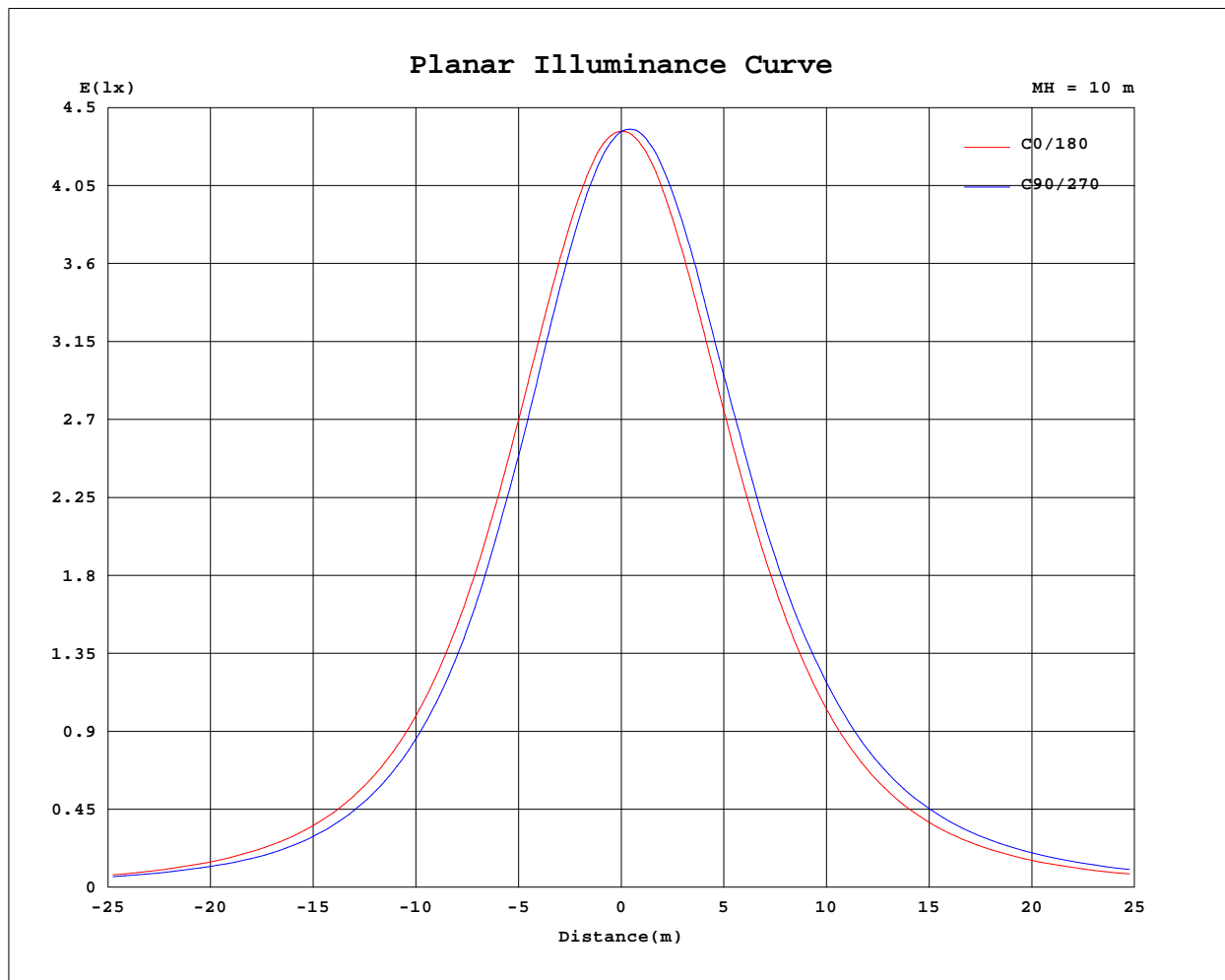
NAME: RB-280-ACEM (AC)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:20150619-03
MFR.:	SUR.:0.05	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:60.0%
Test Distance:13.450m [K=1.0000]
Remarks: 3#

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 20DEG
Operators:
Test Date: 2015-06-19

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 60.0%
Test Distance: 13.450m [K=1.0000]
Remarks: 3#

C:\Documents and Settings\Administrator\桌面\RB-280-ACEM (AC).GOS

C:\Documents and Settings\Administrator\桌面\RB-280-ACEM (AC).GOS

C:\Documents and Settings\Administrator\桌面\RB-280-ACEM (AC).GOS

C:\Documents and Settings\Administrator\桌面\RB-280-ACEM (AC).GOS