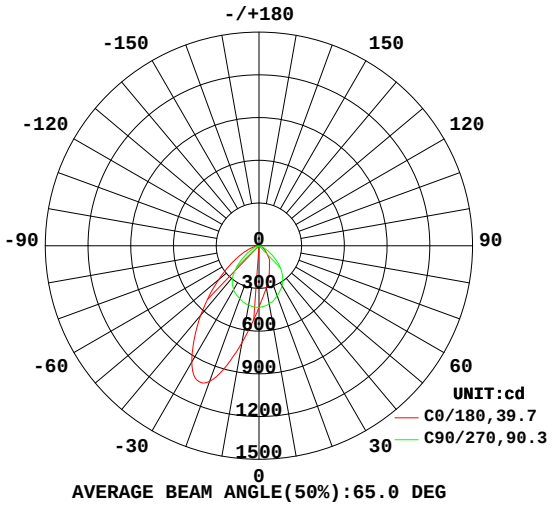
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.03V I:0.1257A P:14.879W PF:0.9860 Freq:60.00Hz Lamp Flux:1146.15x1 lm		
NAME: R2ARWT-A835-WT	TYPE:Recessed-mounted Luminaire	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

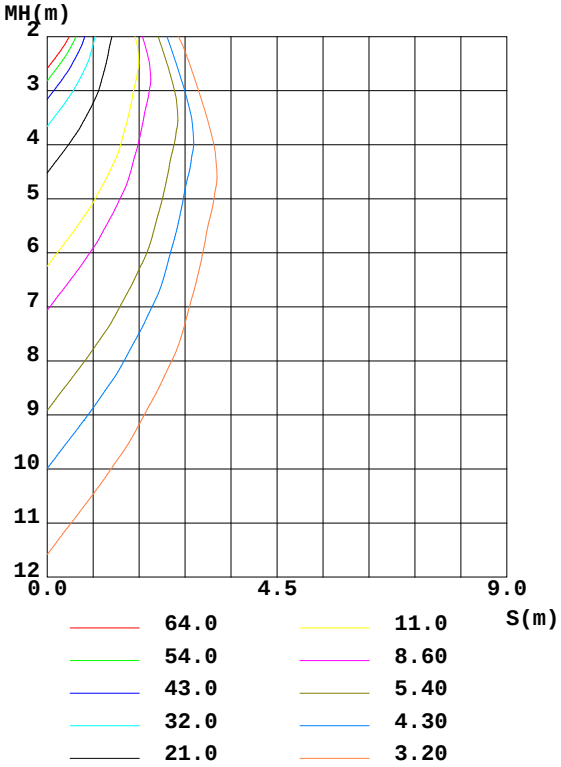
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 77.03 lm/W	
MODEL		Imax(cd)	1044	S/MH(C0/180)	1.38
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1146.2	η UP,DN(C0-180)	0.0,45.0
NOMINAL FLUX(lm)	1146.15	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,54.9
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	99.9	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):65.0 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Oliver
Test Date:2018-04-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:2.464m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	299.2	321.2	414.4	581.5	690.9	598.6	423.9	322.7	0- 10	42.41	42.41	3.7,3.7
20	210.8	237.3	374.0	765.6	1013	813.3	395.5	238.0	10- 20	137.6	180.0	15.7,15.7
30	148.2	168.7	323.6	844.7	944.0	880.5	358.0	170.5	20- 30	231.5	411.4	35.9,35.9
40	105.9	117.7	251.7	692.5	636.5	697.3	288.6	115.2	30- 40	264.7	676.1	59,59
50	62.05	73.82	157.7	450.7	369.2	445.1	174.1	70.46	40- 50	223.5	899.6	78.5,78.5
60	36.18	37.77	72.97	235.9	190.6	213.0	74.78	38.30	50- 60	144.3	1044	91.1,91.1
70	18.65	18.00	25.93	86.47	83.01	79.17	27.28	18.24	60- 70	72.14	1116	97.4,97.4
80	4.563	5.160	5.562	13.62	21.72	14.65	5.522	5.115	70- 80	26.23	1142	99.7,99.7
90	0.2484	0.1742	0.2187	0.2781	0.3311	0.3083	0.2380	0.2677	80- 90	2.991	1145	99.9,99.9
100	0.0155	0.0063	0	0	0	0	0.0034	0.0238	90-100	0.0919	1145	99.9,99.9
110	0.0522	0.0377	0.0016	0	0	0	0.0222	0.0567	100-110	0.0146	1145	99.9,99.9
120	0.1301	0.1024	0.0329	0.0045	0.0042	0.0143	0.0595	0.1559	110-120	0.0377	1145	99.9,99.9
130	0.2674	0.2058	0.0944	0.0316	0.0423	0.0615	0.1519	0.3141	120-130	0.0924	1146	99.9,99.9
140	0.3585	0.2797	0.1624	0.0728	0.1006	0.1309	0.2673	0.4472	130-140	0.1476	1146	100,100
150	0.4247	0.3474	0.2540	0.1459	0.1867	0.2122	0.3563	0.5024	140-150	0.1689	1146	100,100
160	0.4351	0.3836	0.3315	0.2297	0.2997	0.3063	0.4178	0.4966	150-160	0.1536	1146	100,100
170	0.4171	0.4247	0.4013	0.3298	0.4370	0.4282	0.4771	0.4828	160-170	0.1094	1146	100,100
180	0.5335	0.5362	0.4944	0.4248	0.5335	0.5316	0.5160	0.4603	170-180	0.0431	1146	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:2.464m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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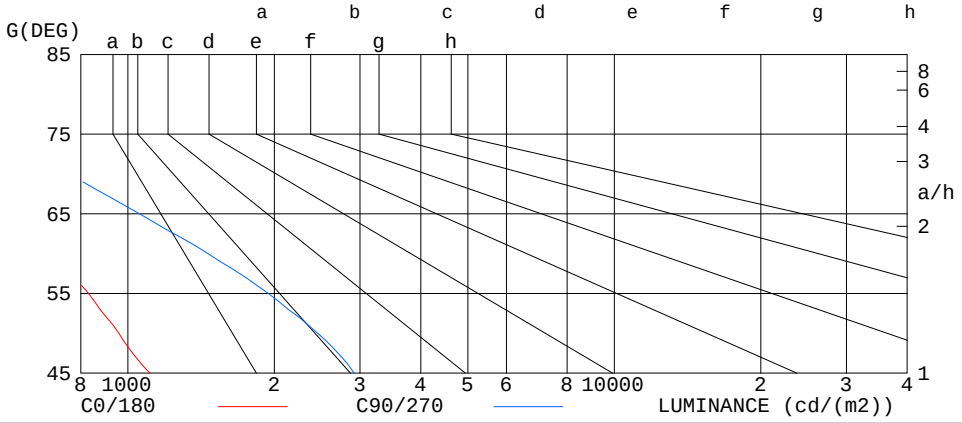
GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	152	178
80	261	321
75	397	543
70	542	759
65	637	1057
60	719	1462
55	830	1945
50	959	2457
45	1111	2917

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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
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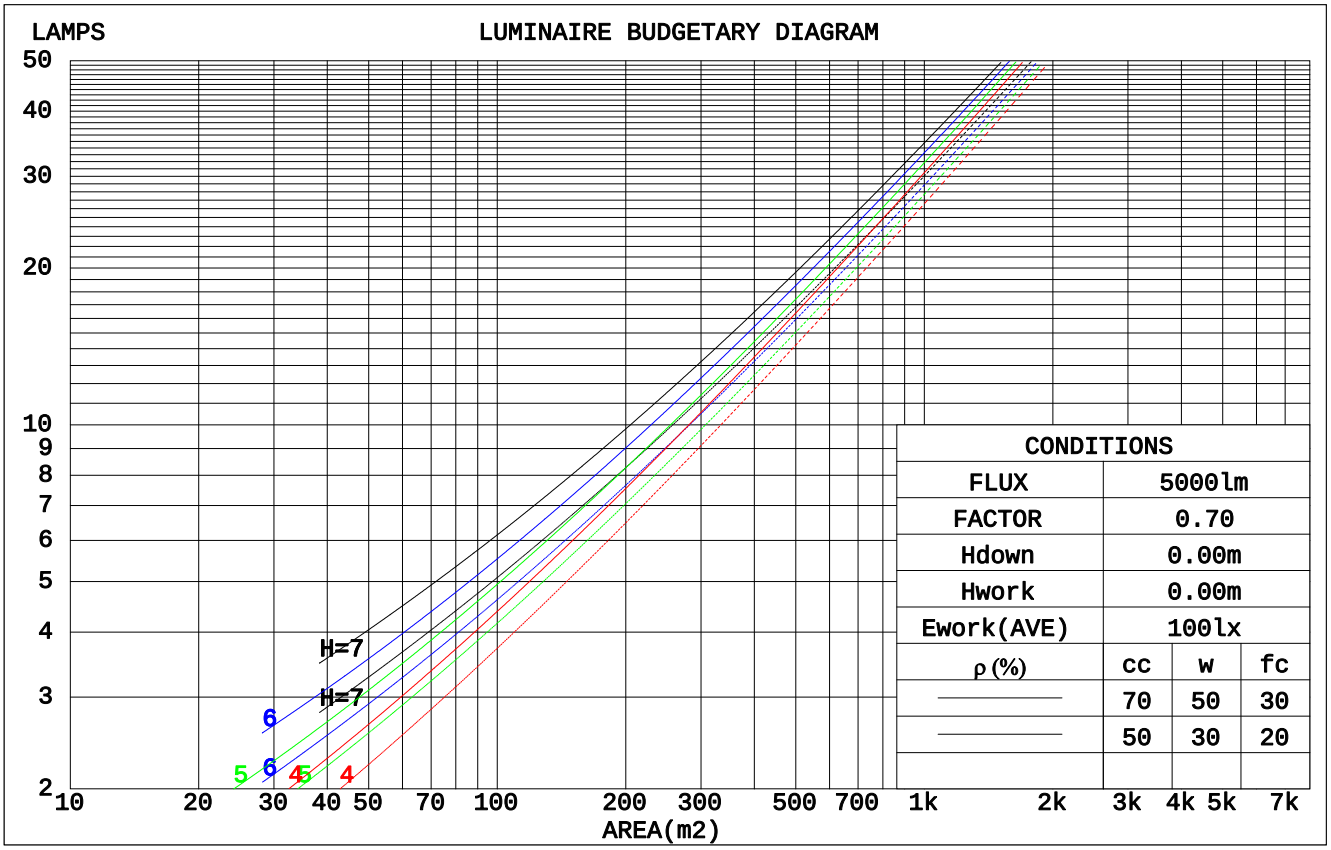
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.84	.80	.84	.81	.79	.77
3.0	.86	.79	.73	.84	.78	.72	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67
4.0	.77	.69	.63	.76	.69	.63	.73	.67	.62	.71	.66	.61	.69	.64	.61	.59
5.0	.70	.62	.56	.68	.61	.55	.66	.60	.55	.65	.59	.54	.63	.58	.54	.52
6.0	.63	.55	.49	.62	.55	.49	.60	.54	.49	.59	.53	.48	.57	.52	.48	.46
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.39	.52	.45	.39	.51	.44	.39	.50	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.43	.36	.32	.42	.36	.32	.30



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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:2.464m [K=1.0000]
Remarks:

WEC AND CCEC

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.248	.141	.045	.241	.137	.044	.228	.131	.042	.216	.124	.040	.205	.119	.038	
2.0	.242	.132	.041	.235	.130	.040	.224	.125	.039	.214	.120	.038	.204	.115	.036	
3.0	.230	.122	.037	.224	.120	.036	.215	.116	.035	.205	.113	.035	.197	.109	.034	
4.0	.217	.113	.033	.212	.111	.033	.203	.108	.032	.195	.105	.032	.188	.102	.031	
5.0	.204	.104	.030	.200	.103	.030	.192	.100	.029	.185	.098	.029	.178	.095	.029	
6.0	.192	.096	.028	.188	.095	.027	.182	.093	.027	.175	.091	.027	.169	.089	.026	
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.160	.083	.024	
8.0	.171	.084	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023	
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.149	.075	.021	.145	.074	.021	
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.071	.020	.138	.069	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.140	.151	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.133	.105	.142	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.115	.081	.135	.099	.070	.093	.069	.049	.053	.040	.029	.017	.013	.009	
4.0	.149	.101	.064	.128	.087	.055	.088	.061	.039	.051	.036	.023	.016	.012	.008	
5.0	.142	.090	.052	.122	.078	.045	.084	.054	.032	.049	.032	.019	.016	.010	.006	
6.0	.136	.082	.043	.117	.071	.037	.080	.049	.026	.047	.029	.016	.015	.010	.005	
7.0	.129	.075	.036	.111	.065	.032	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.069	.031	.106	.060	.027	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.064	.027	.102	.055	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.113	.060	.024	.097	.052	.021	.067	.036	.015	.039	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Oliver
Test Date:2018-04-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:2.464m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	7.4	8.7	7.6	8.9	9.1	10.6	11.9	10.8	12.1	12.3
3H	8.1	9.3	8.4	9.6	9.8	11.1	12.3	11.3	12.5	12.7
4H	8.3	9.5	8.6	9.7	9.9	11.2	12.3	11.5	12.6	12.8
6H	8.3	9.4	8.7	9.7	10.0	11.2	12.3	11.5	12.5	12.8
8H	8.3	9.4	8.7	9.7	9.9	11.1	12.2	11.5	12.5	12.8
12H	8.3	9.3	8.6	9.6	9.9	11.1	12.1	11.4	12.4	12.7
4H 2H	7.7	8.9	8.0	9.1	9.4	10.5	11.7	10.8	11.9	12.2
3H	8.6	9.6	8.9	9.9	10.2	11.1	12.1	11.5	12.4	12.7
4H	8.9	9.8	9.2	10.1	10.4	11.3	12.2	11.7	12.5	12.9
6H	9.0	9.8	9.4	10.1	10.5	11.4	12.2	11.8	12.5	12.9
8H	9.0	9.7	9.4	10.1	10.5	11.4	12.1	11.8	12.5	12.9
12H	9.0	9.6	9.4	10.0	10.4	11.3	12.0	11.8	12.4	12.8
8H 4H	8.9	9.7	9.3	10.0	10.4	11.3	12.0	11.7	12.4	12.8
6H	9.1	9.7	9.6	10.1	10.6	11.4	12.0	11.8	12.4	12.8
8H	9.2	9.7	9.6	10.1	10.6	11.4	11.9	11.9	12.4	12.8
12H	9.2	9.6	9.6	10.1	10.5	11.4	11.8	11.9	12.3	12.8
12H 4H	8.9	9.6	9.3	10.0	10.4	11.2	11.9	11.7	12.3	12.7
6H	9.1	9.6	9.6	10.1	10.5	11.4	11.9	11.8	12.3	12.8
8H	9.2	9.6	9.6	10.1	10.5	11.4	11.8	11.9	12.3	12.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 1.3 / - 0.9				
1.5H	+ 0.4 / - 0.5					+ 2.0 / - 1.6				
2.0H	+ 0.9 / - 0.8					+ 3.4 / - 2.5				

CIE Pub.117, 1146 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.5)

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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:2.464m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	65	59	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	101	94	89	99	93	88	96	91	86	80
2.50	104	97	93	102	96	92	98	94	90	83
3.00	106	101	97	104	99	95	101	97	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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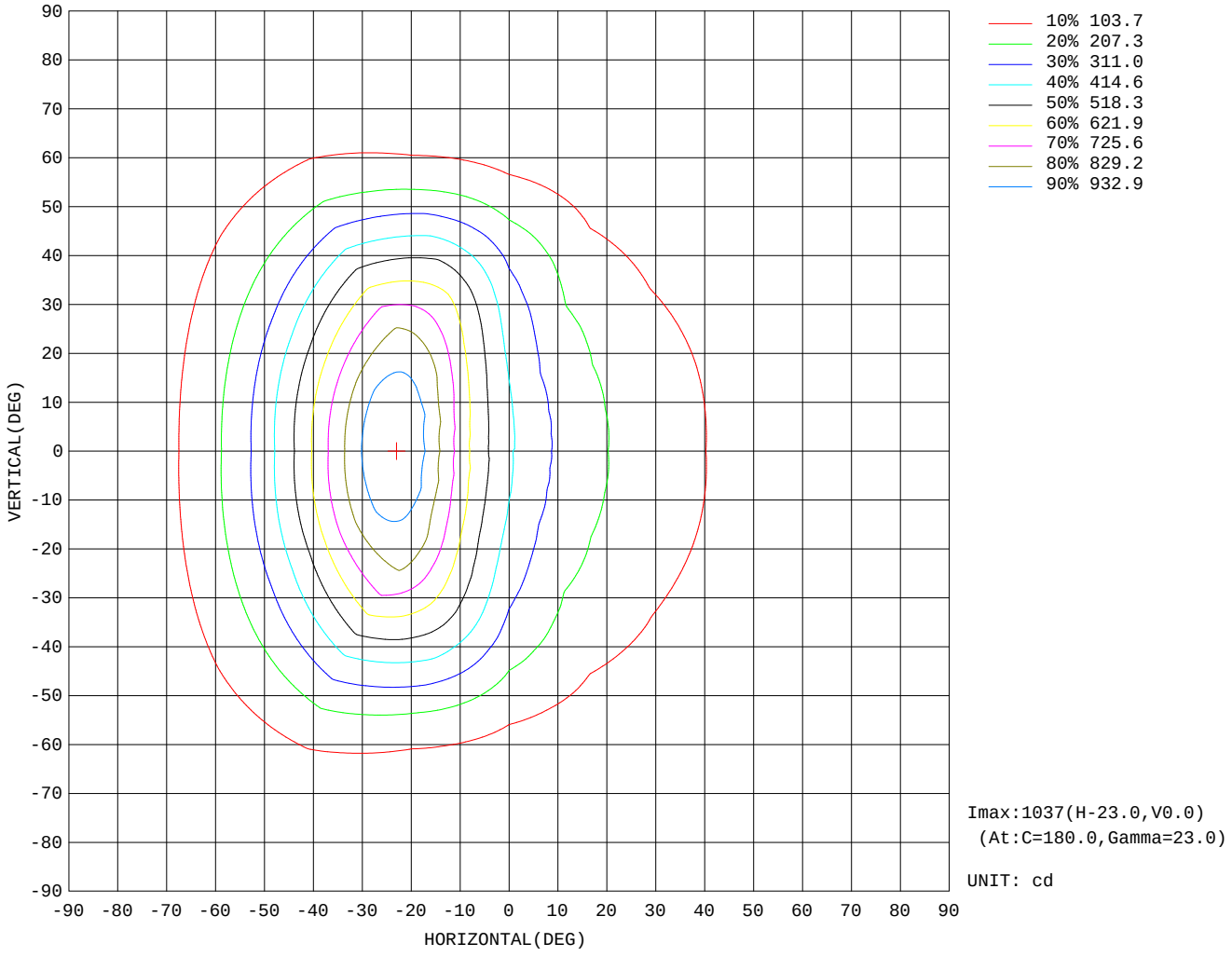
ISOCANDELA DIAGRAM



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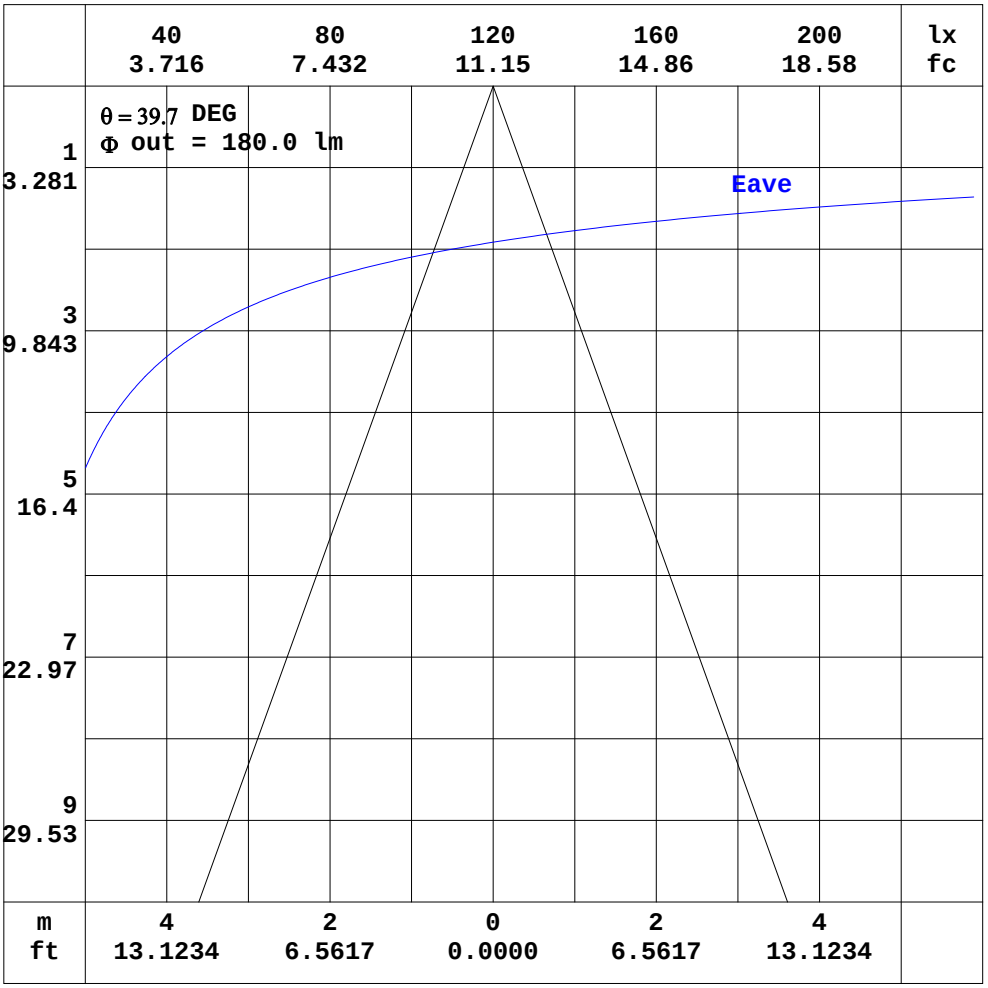
AAI CURVES



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

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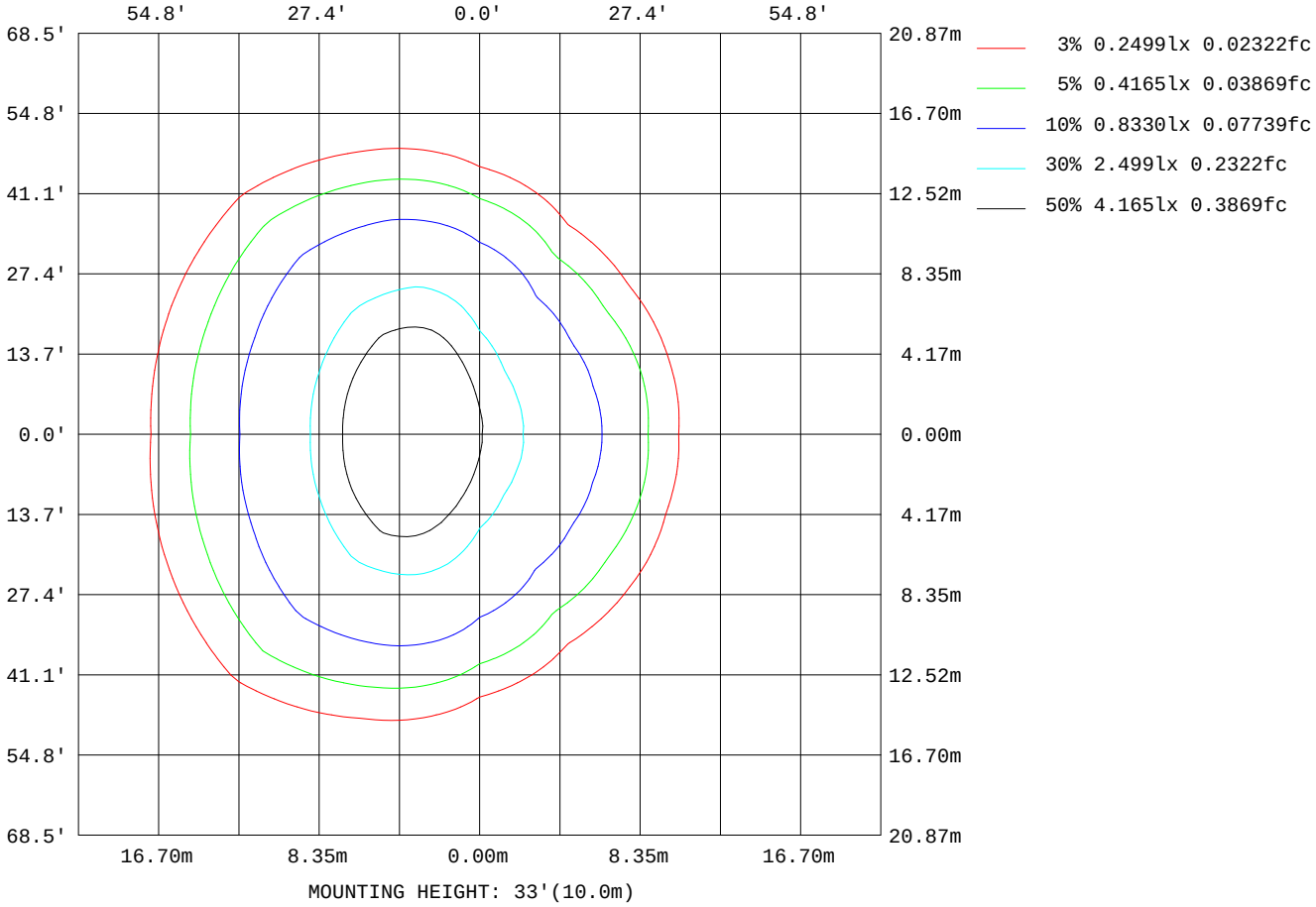
ISOLUX DIAGRAM



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LED Avg.L Report

Test:U:120.03V I:0.1257A P:14.879W PF:0.9860 Freq:60.00Hz Lamp Flux:1146.15x1 lm		
NAME: R2ARWT-A835-WT	TYPE:Recessed-mounted Luminaires	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: WAC Lighting	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1841
L_0~180(75)av	1131
L_0~180(85)av	287
L_90~270(65)av	1073
L_90~270(75)av	554
L_90~270(85)av	178
L_45(65)av	2005
L_45(75)av	1051
L_45(85)av	167

Standard: GB/T 29293-2012

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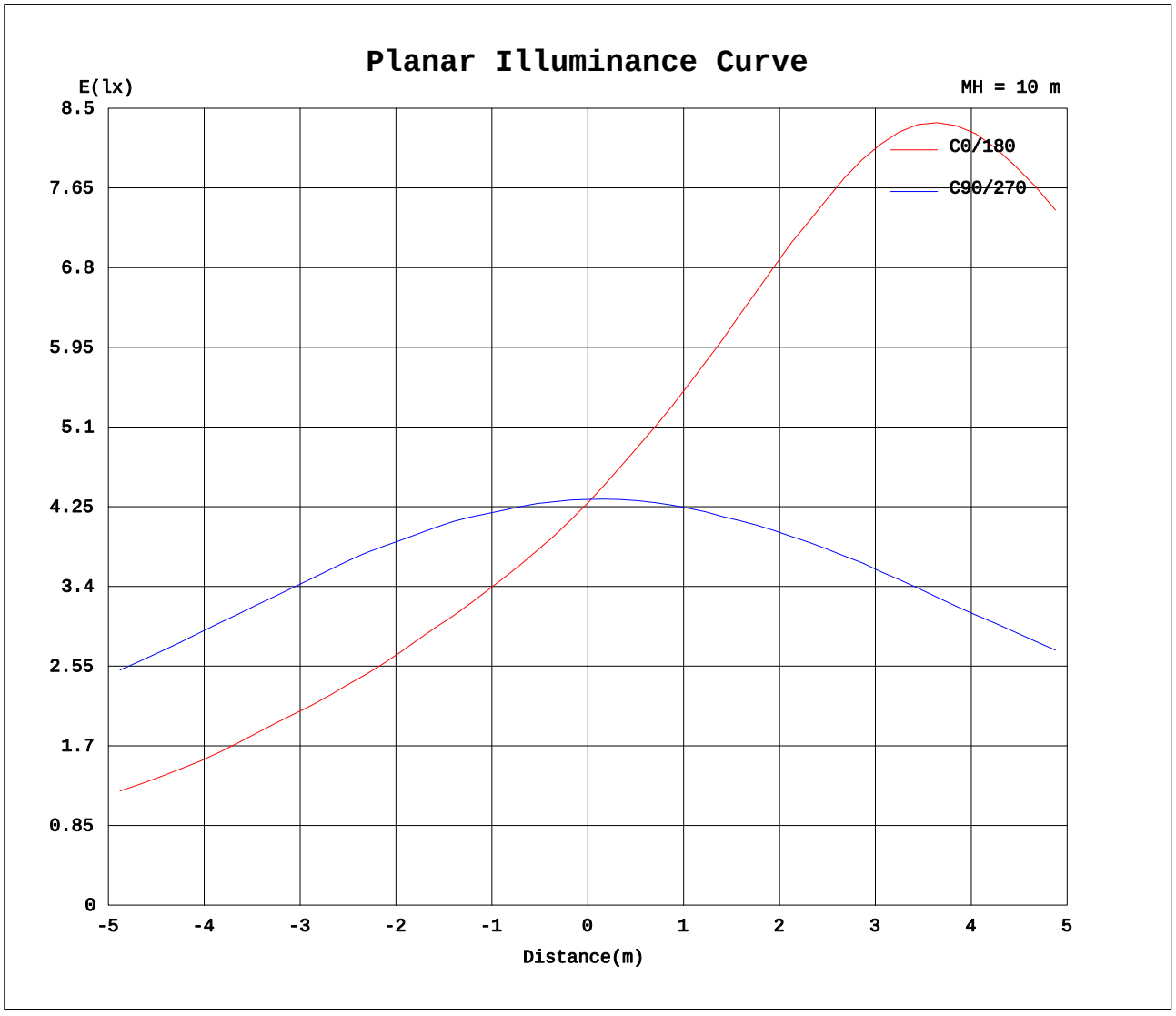
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.2DEG
Operators:Oliver
Test Date:2018-04-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:2.464m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432	432			
5	356	359	373	395	426	463	500	529	542	534	506	470	431	399	374	358			
10	299	304	321	357	414	493	581	658	691	668	599	507	424	362	323	302			
15	251	260	278	318	397	521	678	807	867	830	707	547	413	324	278	256			
20	211	218	237	282	374	544	766	937	1013	969	813	586	396	289	238	217			
25	175	181	201	247	350	563	835	984	1038	1009	884	621	378	253	202	180			
30	148	152	169	212	324	567	845	921	944	940	881	635	358	218	171	151			
35	131	131	142	180	291	547	791	803	790	807	811	615	327	185	140	129			
40	106	113	118	148	252	489	692	656	637	661	697	546	289	153	115	111			
45	79.1	84.0	98.1	119	206	409	571	514	492	523	573	444	234	120	93.4	84.4			
50	62.1	63.3	73.8	92.5	158	312	451	395	369	397	445	329	174	91.9	70.5	63.0			
55	48.0	49.2	52.6	67.2	111	218	338	293	271	289	320	219	119	67.8	52.4	47.7			
60	36.2	37.0	37.8	46.9	73.0	137	236	211	191	203	213	134	74.8	47.5	38.3	36.5			
65	27.1	27.2	26.9	31.9	44.6	79.9	149	142	128	138	135	77.9	46.1	32.5	27.5	26.5			
70	18.7	18.2	18.0	20.7	25.9	42.3	86.5	90.9	83.0	87.9	79.2	42.3	27.3	21.3	18.2	17.5			
75	10.3	10.3	10.9	12.2	14.0	21.4	45.9	52.4	48.2	49.5	41.0	20.9	14.6	12.7	11.1	10.2			
80	4.56	4.80	5.16	5.47	5.56	6.68	13.6	19.1	21.7	21.3	14.7	6.52	5.52	5.53	5.12	4.81			
85	1.33	1.44	1.62	1.66	1.55	1.36	1.32	1.49	3.67	2.27	1.25	1.35	1.55	1.68	1.63	1.57			
90	0.25	0.21	0.17	0.24	0.22	0.23	0.28	0.25	0.33	0.35	0.31	0.30	0.24	0.26	0.27	0.28			
95	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02			
100	0.02	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03			
105	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.03	0.03			
110	0.05	0.04	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.06	0.06			
115	0.08	0.08	0.06	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.10	0.10			
120	0.13	0.12	0.10	0.07	0.03	0.01	0.00	0.00	0.00	0.01	0.01	0.03	0.06	0.11	0.16	0.17			
125	0.19	0.18	0.15	0.10	0.06	0.03	0.02	0.01	0.02	0.02	0.03	0.06	0.10	0.17	0.23	0.26			
130	0.27	0.25	0.21	0.15	0.09	0.06	0.03	0.02	0.04	0.05	0.06	0.09	0.15	0.24	0.31	0.36			
135	0.32	0.29	0.25	0.18	0.13	0.08	0.05	0.04	0.07	0.08	0.09	0.14	0.21	0.31	0.39	0.46			
140	0.36	0.33	0.28	0.22	0.16	0.11	0.07	0.06	0.10	0.11	0.13	0.18	0.27	0.36	0.45	0.52			
145	0.40	0.36	0.32	0.26	0.21	0.15	0.11	0.08	0.14	0.14	0.17	0.23	0.32	0.41	0.48	0.56			
150	0.42	0.39	0.35	0.30	0.25	0.20	0.15	0.12	0.19	0.18	0.21	0.27	0.36	0.44	0.50	0.56			
155	0.43	0.40	0.37	0.33	0.29	0.24	0.19	0.15	0.24	0.23	0.26	0.32	0.39	0.46	0.50	0.54			
160	0.44	0.40	0.38	0.36	0.33	0.28	0.23	0.19	0.30	0.29	0.31	0.36	0.42	0.47	0.50	0.51			
165	0.42	0.40	0.40	0.39	0.37	0.33	0.28	0.24	0.36	0.36	0.36	0.40	0.45	0.48	0.49	0.48			
170	0.42	0.41	0.42	0.42	0.40	0.37	0.33	0.29	0.44	0.43	0.43	0.45	0.48	0.49	0.48	0.45			
175	0.51	0.50	0.50	0.48	0.45	0.42	0.39	0.35	0.51	0.51	0.50	0.51	0.51	0.50	0.48	0.44			
180	0.53	0.54	0.54	0.52	0.49	0.46	0.42	0.39	0.53	0.53	0.53	0.53	0.52	0.49	0.46	0.42			

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