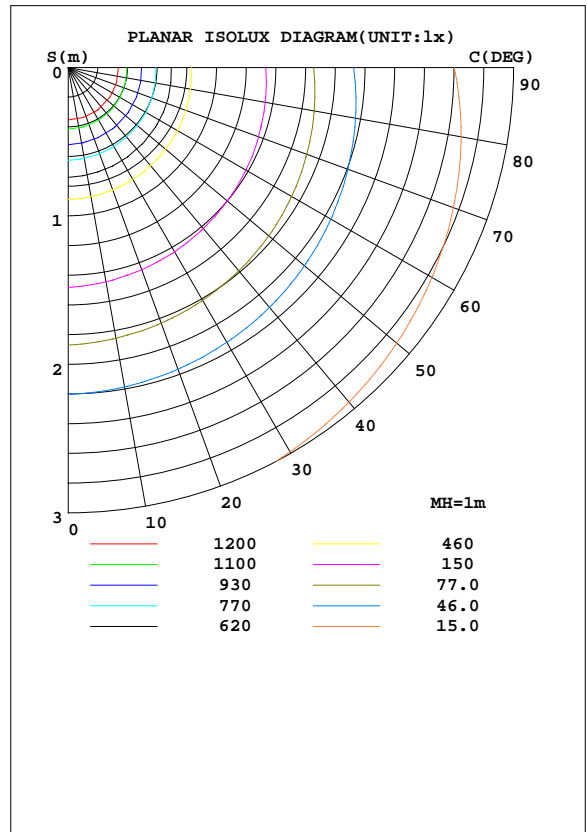
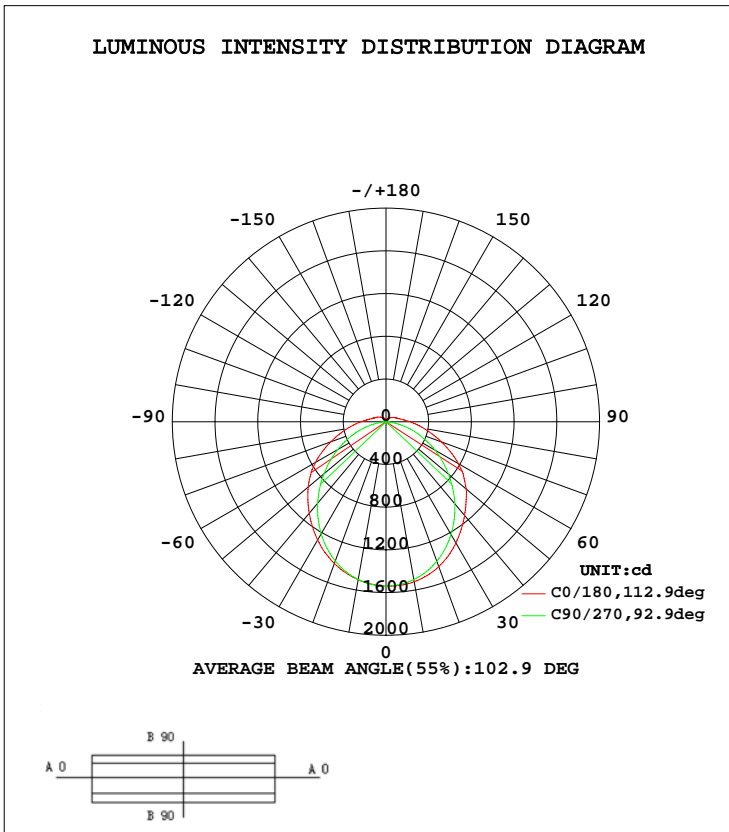


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.75 lm/W			
MODEL	ASD-LVP3SM-4N3650PRM	Imax(cd)	1540	S/MH(C0/180)	1.24
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4808.0	η UP, DN(C0-180)	3.6, 46.3
NOMINAL FLUX(lm)	4807.95	CIE CLASS	DIRECT	η UP, DN(C180-360)	3.4, 46.7
LAMPS INSIDE	1	η up(%)	7.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120.3	η down(%)	93.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	#lum,lamp
10	1502	1500	1500	1514	1521	1513	1501	1510	0- 10	145.4	145.4	3.02,3.02
20	1413	1401	1388	1436	1445	1421	1391	1423	10- 20	414.2	559.6	11.6,11.6
30	1279	1248	1214	1297	1310	1270	1218	1280	20- 30	619.8	1179	24.5,24.5
40	1118	1060	996.3	1104	1145	1079	1003	1093	30- 40	733.6	1913	39.8,39.8
50	951.9	857.7	758.5	895.7	980.1	873.9	765.8	887.3	40- 50	751.4	2664	55.4,55.4
60	761.8	658.1	522.5	690.0	781.6	673.8	529.2	682.0	50- 60	686.5	3351	69.7,69.7
70	550.2	457.7	301.0	477.6	552.7	466.2	303.9	460.2	60- 70	548.9	3900	81.1,81.1
80	367.8	276.6	100.8	286.7	360.1	280.1	104.6	281.0	70- 80	366.3	4266	88.7,88.7
90	234.9	153.1	0.9893	157.9	225.6	152.2	0.9969	164.2	80- 90	206.6	4473	93,93
100	152.5	93.03	1.490	94.74	144.8	90.86	1.183	100.8	90-100	117.0	4590	95.5,95.5
110	111.9	69.01	2.727	68.97	105.4	65.97	2.190	69.72	100-110	76.31	4666	97,97
120	87.53	49.01	4.256	52.33	81.79	49.85	3.260	45.50	110-120	54.10	4720	98.2,98.2
130	67.24	34.10	5.779	39.80	62.48	37.75	4.338	28.75	120-130	36.52	4756	98.9,98.9
140	49.42	24.32	7.127	29.73	45.55	28.32	5.585	18.77	130-140	23.69	4780	99.4,99.4
150	34.95	17.56	8.746	21.91	31.74	21.33	7.803	13.64	140-150	14.41	4795	99.7,99.7
160	23.57	14.13	10.17	16.83	21.41	16.60	9.764	12.41	150-160	8.181	4803	99.9,99.9
170	15.49	12.27	11.31	13.17	14.19	13.11	11.17	12.08	160-170	4.053	4807	100,100
180	9.552	11.60	11.85	11.52	9.608	11.57	11.89	11.50	170-180	1.153	4808	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

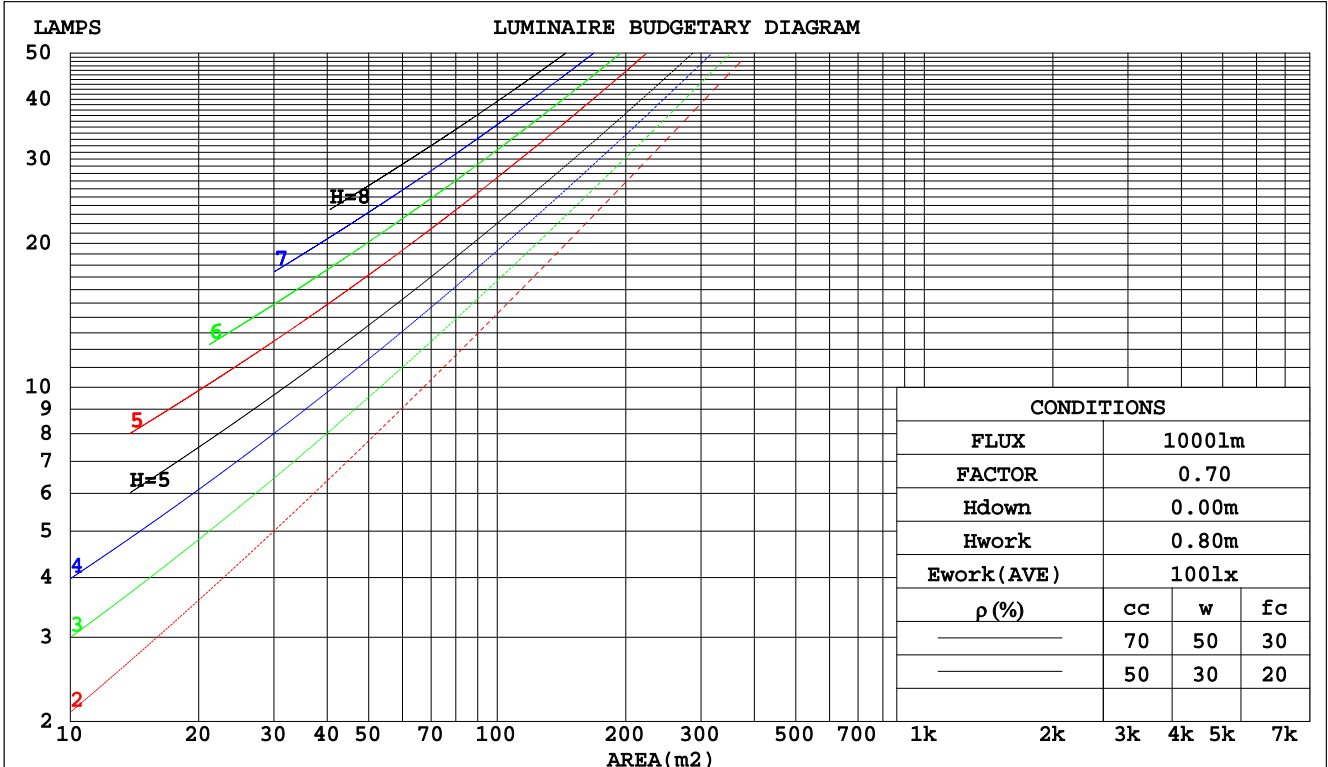
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION 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															
	Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.01	.96	.92	.98	.94	.90	.92	.89	.86	.87	.84	.82	.82	.80	.78	.75
2.0	.87	.80	.74	.85	.78	.73	.80	.75	.70	.76	.71	.67	.72	.68	.65	.62
3.0	.77	.68	.61	.74	.67	.60	.70	.64	.58	.67	.61	.56	.63	.59	.55	.52
4.0	.68	.59	.52	.66	.58	.51	.62	.55	.50	.59	.53	.48	.56	.51	.47	.44
5.0	.60	.51	.45	.59	.50	.44	.56	.49	.43	.53	.47	.42	.51	.45	.41	.38
6.0	.54	.45	.39	.53	.45	.38	.51	.43	.37	.48	.42	.37	.46	.40	.36	.33
7.0	.49	.40	.34	.48	.40	.34	.46	.39	.33	.44	.37	.32	.42	.36	.32	.30
8.0	.45	.36	.31	.44	.36	.30	.42	.35	.30	.40	.34	.29	.39	.33	.28	.26
9.0	.41	.33	.27	.40	.33	.27	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24
10.0	.38	.30	.25	.37	.30	.25	.36	.29	.24	.34	.28	.24	.33	.27	.23	.22



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 31DEG
 Operators: 01
 Test Date: 2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: %
 Test Distance: 9.190m [K=0.9684]
 Remarks:

WEC AND CCEC

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:

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 Coefficients(WEC)									
0.0																
1.0	.337	.192	.061	.328	.187	.059	.311	.178	.057	.295	.170	.055	.280	.162	.052	
2.0	.305	.167	.051	.297	.163	.050	.281	.156	.049	.267	.150	.047	.254	.144	.045	
3.0	.277	.148	.044	.270	.145	.044	.256	.139	.042	.243	.133	.041	.231	.128	.040	
4.0	.253	.132	.039	.247	.129	.038	.234	.124	.037	.223	.120	.036	.212	.115	.035	
5.0	.233	.119	.034	.227	.116	.034	.216	.112	.033	.205	.108	.032	.196	.104	.031	
6.0	.215	.108	.031	.210	.106	.030	.199	.102	.030	.190	.099	.029	.181	.095	.028	
7.0	.199	.099	.028	.195	.097	.028	.185	.094	.027	.177	.091	.026	.169	.088	.026	
8.0	.186	.091	.026	.181	.089	.025	.173	.087	.025	.165	.084	.024	.158	.081	.024	
9.0	.174	.084	.023	.170	.083	.023	.162	.080	.023	.155	.078	.022	.149	.075	.022	
10.0	.163	.078	.022	.160	.077	.022	.153	.075	.021	.146	.073	.021	.140	.070	.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	.244	.244	.244	.208	.208	.208	.142	.142	.142	.082	.082	.082	.026	.026	.026	
1.0	.236	.209	.186	.202	.180	.160	.138	.124	.111	.079	.072	.064	.025	.023	.021	
2.0	.228	.186	.150	.195	.160	.130	.134	.111	.091	.077	.064	.053	.025	.021	.017	
3.0	.220	.169	.127	.189	.145	.111	.130	.101	.078	.075	.059	.046	.024	.019	.015	
4.0	.212	.156	.112	.182	.134	.097	.125	.094	.069	.072	.055	.041	.023	.018	.013	
5.0	.205	.145	.101	.176	.126	.088	.121	.088	.062	.070	.052	.037	.023	.017	.012	
6.0	.198	.137	.094	.170	.119	.082	.117	.083	.058	.068	.049	.034	.022	.016	.011	
7.0	.191	.130	.088	.164	.113	.077	.113	.079	.054	.066	.047	.032	.021	.015	.011	
8.0	.184	.125	.084	.158	.108	.073	.110	.076	.052	.064	.045	.031	.021	.015	.010	
9.0	.178	.120	.080	.153	.104	.070	.106	.073	.050	.062	.043	.030	.020	.014	.010	
10.0	.172	.115	.078	.148	.100	.068	.103	.071	.048	.060	.042	.029	.019	.014	.010	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks:

Uncorrected UGR Table

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm										
NAME: LED vapor tight fixture					TYPE:			WEIGHT:		
DIM.: 1250*85.5*60.8					SPEC.:			SERIAL No.:		
MFR.: ASD LIGHTING CORPORATION					SUR.:			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	37.9	39.4	38.3	39.7	40.0	36.6	38.1	37.0	38.4	38.7
3H	39.9	41.2	40.3	41.6	42.0	37.9	39.3	38.3	39.6	40.0
4H	40.9	42.1	41.3	42.5	42.9	38.4	39.7	38.8	40.1	40.5
6H	41.9	43.1	42.3	43.5	43.9	38.7	39.9	39.1	40.3	40.7
8H	42.4	43.6	42.9	44.0	44.4	38.8	39.9	39.2	40.3	40.8
12H	43.1	44.2	43.5	44.6	45.1	38.8	39.9	39.2	40.3	40.7
4H 2H	38.4	39.7	38.8	40.1	40.5	37.5	38.7	37.9	39.1	39.5
3H	40.6	41.7	41.1	42.1	42.6	39.0	40.1	39.5	40.6	41.0
4H	41.8	42.8	42.2	43.2	43.7	39.7	40.7	40.1	41.1	41.6
6H	43.0	43.9	43.5	44.4	44.9	40.1	41.0	40.6	41.5	42.0
8H	43.6	44.5	44.1	45.0	45.5	40.2	41.1	40.7	41.6	42.1
12H	44.4	45.2	44.9	45.7	46.2	40.3	41.1	40.8	41.6	42.1
8H 4H	42.0	42.9	42.5	43.4	43.9	40.3	41.1	40.8	41.6	42.1
6H	43.5	44.2	44.0	44.7	45.3	41.0	41.7	41.5	42.2	42.8
8H	44.3	44.9	44.9	45.5	46.1	41.2	41.9	41.8	42.4	43.0
12H	45.3	45.8	45.9	46.4	47.0	41.4	42.0	42.0	42.5	43.2
12H 4H	42.0	42.8	42.6	43.3	43.9	40.4	41.2	40.9	41.7	42.2
6H	43.6	44.2	44.1	44.7	45.3	41.3	41.9	41.8	42.4	43.0
8H	44.5	45.0	45.1	45.6	46.2	41.6	42.2	42.2	42.8	43.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 4808 lm Total Lamp Luminous Flux. (8log(F/F0) = 5.5)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 31DEG
 Operators: 01
 Test Date: 2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: %
 Test Distance: 9.190m [K=0.9684]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:

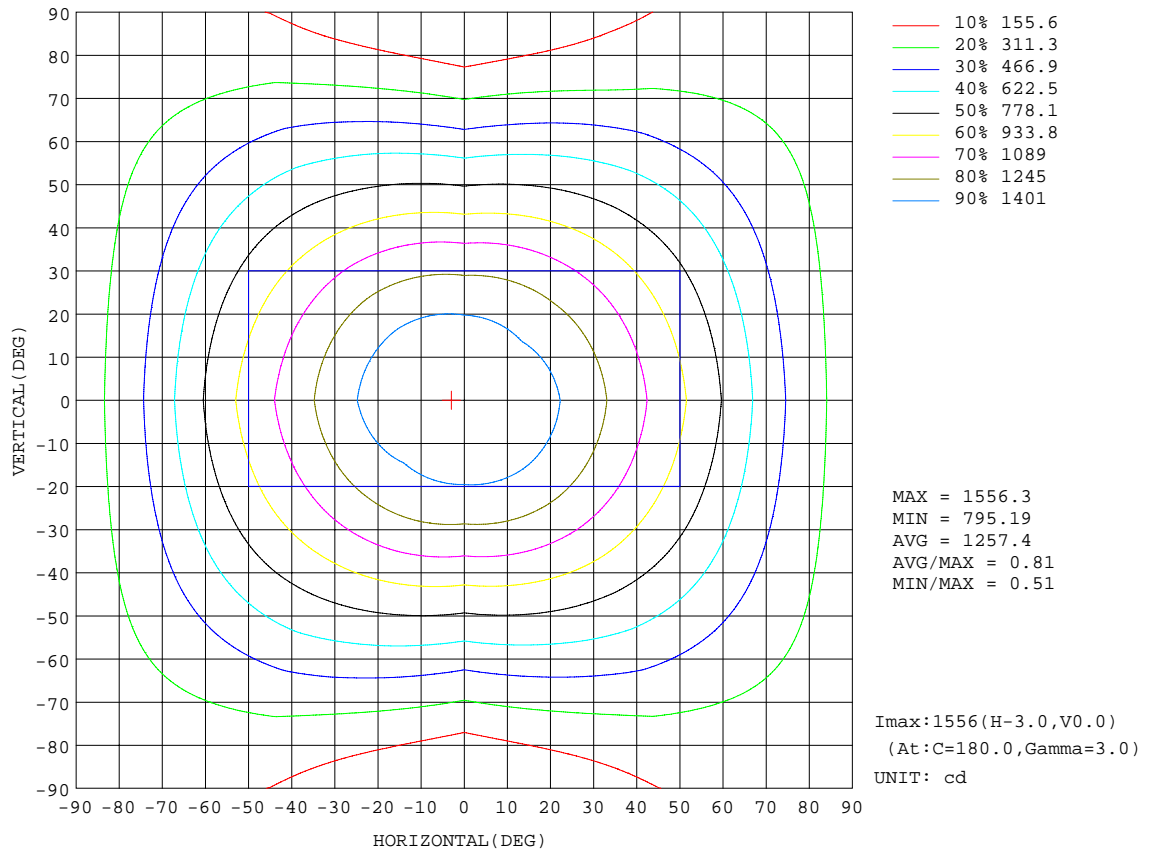
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	55	43	36	54	42	36	52	42	35	29
0.80	64	52	45	63	52	44	61	51	44	37
1.00	72	61	53	71	60	53	68	61	52	44
1.25	79	68	60	77	67	60	74	65	59	51
1.50	84	73	66	82	72	65	78	70	64	55
2.00	91	82	74	89	80	73	84	77	71	62
2.50	95	86	80	93	85	78	88	81	76	66
3.00	99	91	85	96	89	83	91	85	80	70
4.00	103	96	91	100	94	89	94	90	86	75
5.00	105	100	95	102	97	93	97	93	89	78
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:

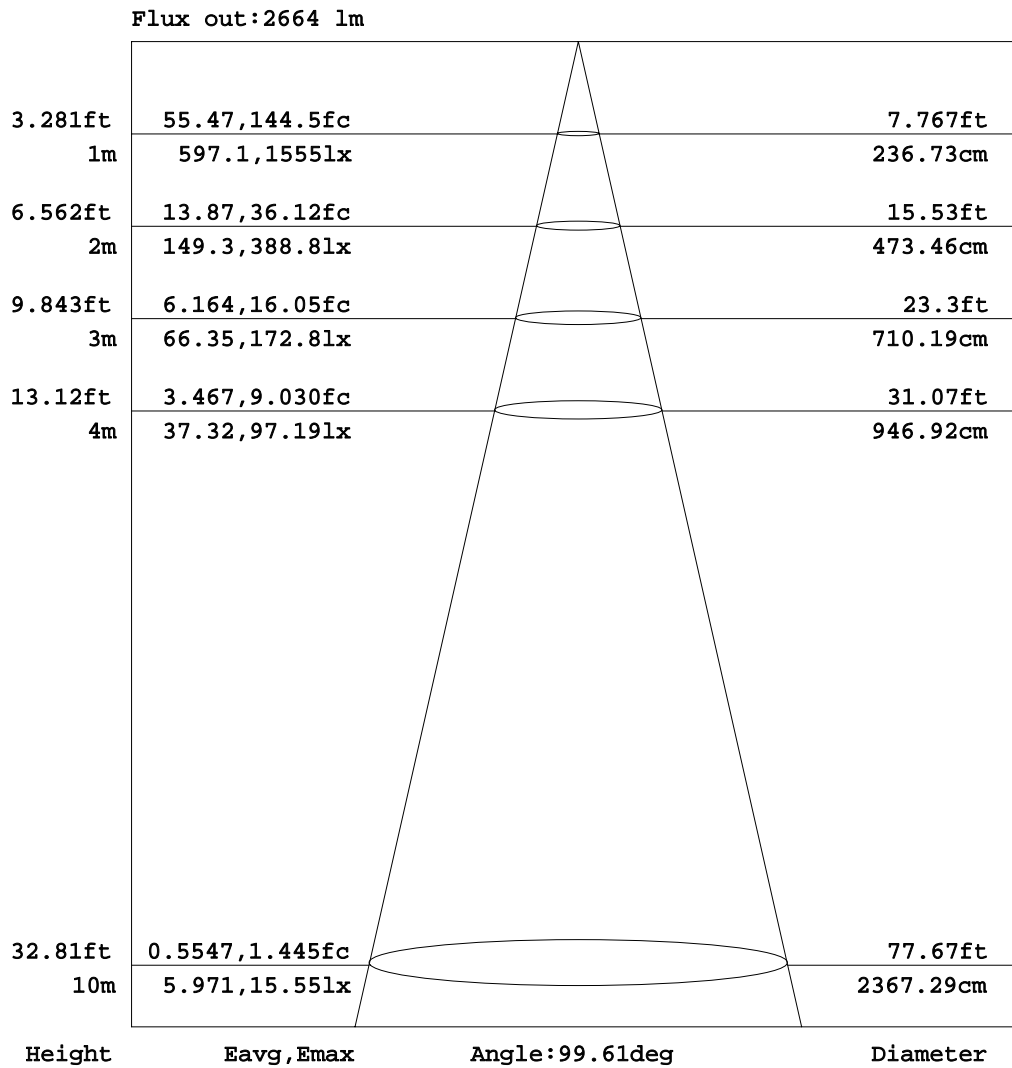


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks:

AAI Figure

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:



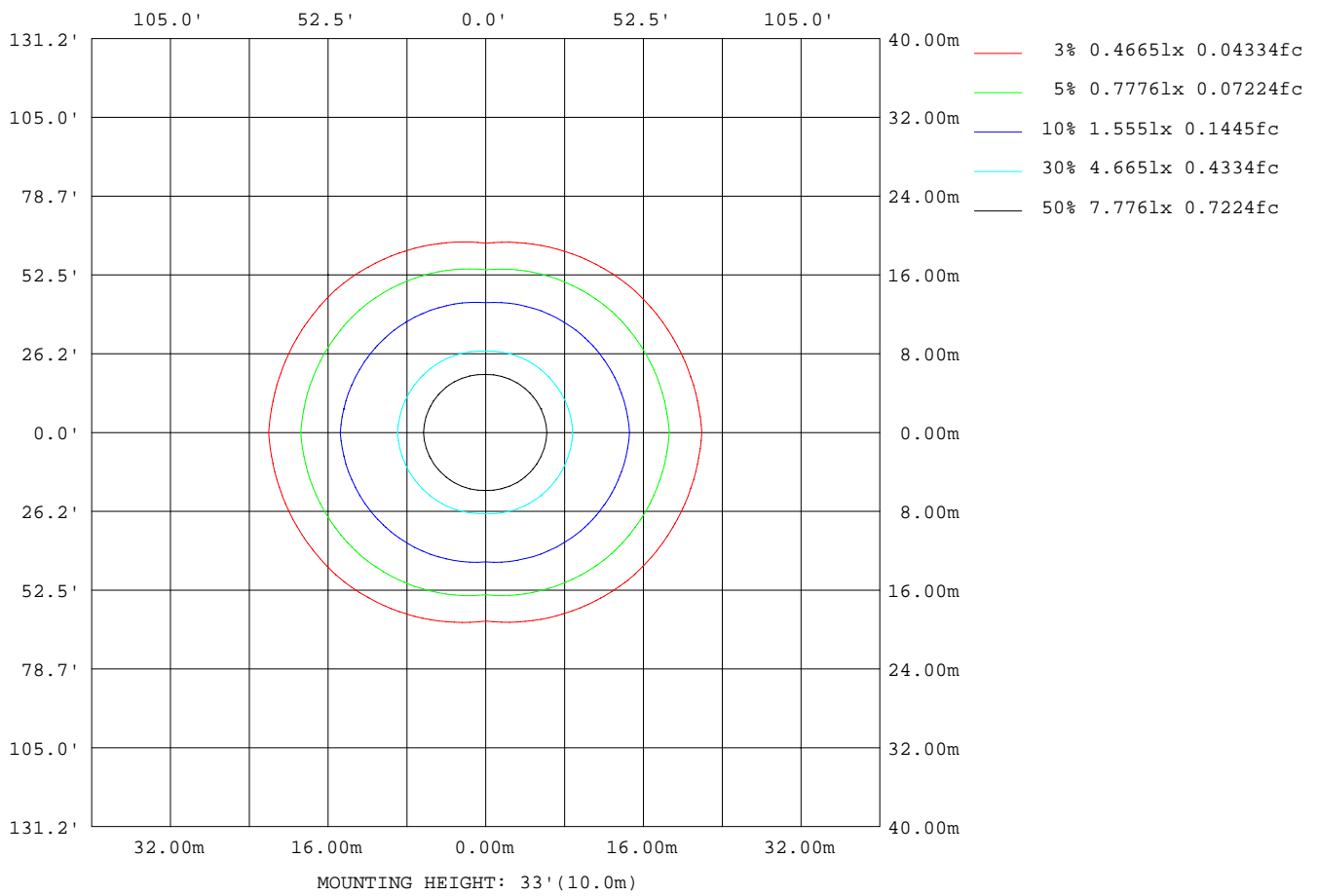
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks:

ISOLUX DIAGRAM

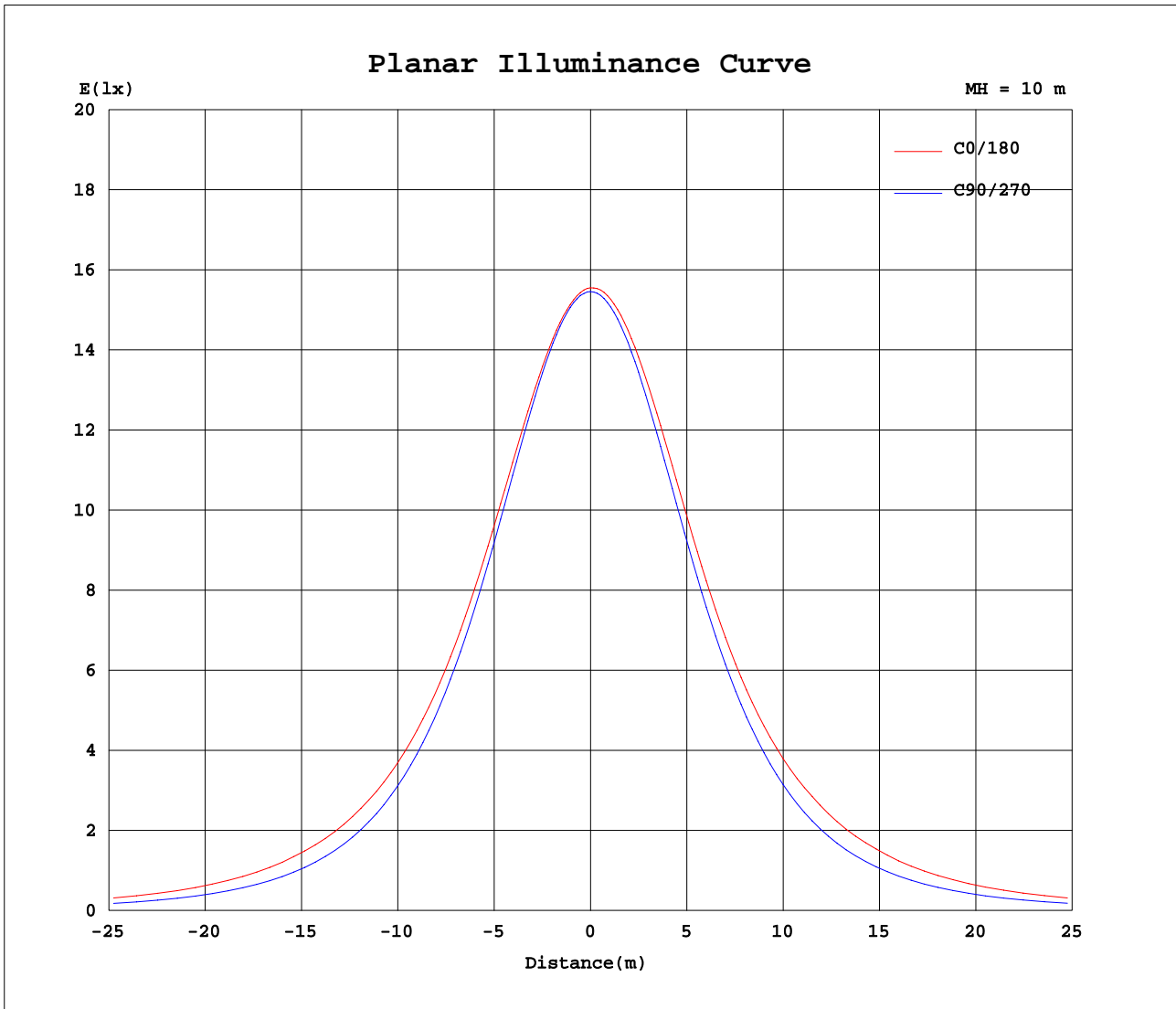
Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 31DEG
 Operators: 01
 Test Date: 2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: %
 Test Distance: 9.190m [K=0.9684]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 31DEG
 Operators: 01
 Test Date: 2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity: %
 Test Distance: 9.190m [K=0.9684]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.3119A P:36.77W PF:0.9801 Lamp Flux:4807.95x1 lm		
NAME: LED vapor tight fixture	TYPE:	WEIGHT:
DIM.: 1250*85.5*60.8	SPEC.:	SERIAL No.:
MFR.: ASD LIGHTING CORPORATION	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	1539	1539	1539	1539	1539	1539	1539	1539											
5	1527	1529	1529	1534	1538	1534	1530	1531											
10	1502	1500	1500	1514	1521	1513	1501	1510											
15	1463	1458	1453	1482	1491	1474	1454	1474											
20	1413	1401	1388	1436	1445	1421	1391	1423											
25	1351	1330	1308	1374	1384	1352	1312	1359											
30	1279	1248	1214	1297	1310	1270	1218	1280											
35	1200	1157	1109	1205	1229	1178	1114	1190											
40	1118	1060	996	1104	1145	1079	1003	1093											
45	1034	960	878	1000	1061	976	885	991											
50	952	858	759	896	980	874	766	887											
55	860	757	640	792	887	773	646	784											
60	762	658	522	690	782	674	529	682											
65	656	558	409	586	666	571	413	576											
70	550	458	301	478	553	466	304	460											
75	453	361	195	376	449	368	199	352											
80	368	277	101	287	360	280	105	281											
85	295	207	28.8	214	286	207	31.2	218											
90	235	153	0.99	158	226	152	0.9969	164											
95	187	116	0.95	119	179	114	0.88	126											
100	153	93.0	1.49	94.7	145	90.9	1.18	101											
105	129	79.4	2.04	79.9	121	76.7	1.64	84.4											
110	112	69.0	2.73	69.0	105	66.0	2.19	69.7											
115	98.9	59.1	3.49	60.0	92.8	57.3	2.73	60.7											
120	87.5	49.0	4.26	52.3	81.8	49.8	3.26	45.5											
125	77.1	40.9	5.00	45.7	71.9	43.4	3.78	35.1											
130	67.2	34.1	5.78	39.8	62.5	37.8	4.34	28.7											
135	58.1	28.7	6.52	34.7	53.8	32.6	4.85	23.5											
140	49.4	24.3	7.13	29.7	45.6	28.3	5.58	18.8											
145	41.8	20.5	7.96	25.7	38.1	24.6	6.69	16.3											
150	34.9	17.6	8.75	21.9	31.7	21.3	7.80	13.6											
155	29.0	15.6	9.47	19.3	26.0	18.8	8.86	12.7											
160	23.6	14.1	10.2	16.8	21.4	16.6	9.76	12.4											
165	19.2	12.9	10.7	14.9	17.6	14.8	10.5	12.3											
170	15.5	12.3	11.3	13.2	14.2	13.1	11.2	12.1											
175	10.5	11.7	11.7	11.7	11.7	12.2	11.7	11.6											
180	9.55	11.6	11.8	11.5	9.61	11.6	11.9	11.5											

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:31DEG
 Operators:01
 Test Date:2017-07-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.276
 Humidity:%
 Test Distance:9.190m [K=0.9684]
 Remarks: