

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	343.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-6.0 degrees horizontal

Beam Spread	At 10% of Imax	135.8V x 148.0H
	At 50% of Imax	109.7V x 113.6H
	At 90% of Imax	54.0V x 54.0H

Beam Flux	Total	914.3 lumens per klm.
	To 10% of Imax	901.0 lumens per klm.
	To 50% of Imax	748.4 lumens per klm.
	To 90% of Imax	219.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	91.4 %

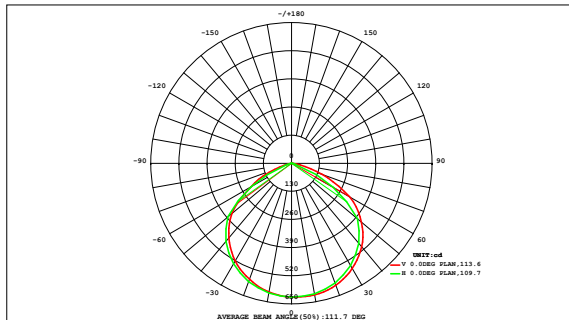
Luminaire Efficiency (Light Output Ratio)	91.6 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 July 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 98Vega20Slim	TYPE: 98Vega20Slim	WEIGHT: 1
SPEC.:	DIM.: 0.125x0.075x.007	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98Vega20Slim	Imax(cd)	618.6
NOMINAL POWER(W)	20	AVAILABILITY(%)	90.4
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	1628
NOMINAL FLUX(lm)	1800	LOR(%)	91.6
LAMPS INSIDE	1	TOTAL FLUX(lm)	1649
TEST VOLTAGE(V)	230	θ @50% (H,V)	114,110DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	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	0.00	0.00	0.00	0.00	0.00	0.01	0.00
90	0.00	0.02	0.05	0.12	0.20	0.30	0.38	0.45	0.49	0.49	0.45	0.38	0.29	0.19	0.11	0.05	0.01	0.00	3.98	0.00
80	0.00	0.03	0.17	0.57	1.19	1.89	2.46	2.87	3.11	3.11	2.89	2.48	1.92	1.20	0.63	0.18	0.03	0.00	24.8	19.3
70	0.00	0.07	0.55	1.86	3.75	5.77	7.38	8.52	9.15	9.11	8.44	7.24	5.58	3.60	1.84	0.57	0.07	0.00	73.5	72.5
60	0.01	0.14	1.16	3.30	6.16	8.77	10.9	12.5	13.3	13.2	12.3	10.6	8.42	5.74	3.12	1.13	0.15	0.01	111	110
50	0.01	0.25	1.69	4.38	7.56	10.4	12.8	14.5	15.4	15.3	14.3	12.4	9.98	7.13	4.01	1.59	0.25	0.01	132	132
40	0.01	0.37	2.12	5.23	8.57	11.7	14.3	16.1	17.0	16.9	15.8	13.9	11.2	8.13	4.76	1.97	0.35	0.01	148	148
30	0.01	0.47	2.42	5.78	9.26	12.5	15.2	17.2	18.1	18.0	16.9	14.8	12.0	8.79	5.27	2.23	0.42	0.01	159	159
20	0.02	0.51	2.56	6.03	9.61	13.0	15.7	17.7	18.7	18.6	17.4	15.3	12.4	9.13	5.54	2.37	0.46	0.01	165	165
10	0.02	0.52	2.58	6.05	9.64	13.0	15.8	17.8	18.7	18.6	17.4	15.3	12.5	9.14	5.54	2.36	0.46	0.01	165	165
0	0.01	0.49	2.44	5.79	9.33	12.6	15.4	17.3	18.2	18.2	17.0	14.9	12.1	8.85	5.29	2.23	0.41	0.01	161	160
-10	0.01	0.42	2.17	5.28	8.68	11.8	14.5	16.4	17.2	17.1	16.0	14.0	11.3	8.24	4.75	1.96	0.32	0.01	150	150
-20	0.01	0.31	1.76	4.48	7.67	10.6	13.1	14.8	15.7	15.6	14.5	12.7	10.1	7.27	3.97	1.57	0.23	0.01	134	134
-30	0.01	0.20	1.24	3.45	6.25	8.89	11.1	12.7	13.4	13.3	12.4	10.7	8.50	5.80	3.05	1.08	0.13	0.00	112	112
-40	0.01	0.11	0.71	2.13	4.18	6.21	7.89	9.13	9.74	9.63	8.83	7.49	5.80	3.59	1.86	0.50	0.05	0.00	77.9	77.0
-50	0.00	0.04	0.24	0.77	1.52	2.38	3.06	3.60	3.88	3.71	3.26	2.66	1.88	1.10	0.50	0.13	0.02	0.00	28.8	24.3
-60	0.00	0.02	0.04	0.05	0.09	0.12	0.16	0.19	0.20	0.20	0.19	0.16	0.12	0.08	0.05	0.02	0.01	0.00	1.70	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00
-80	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.14	3.96	21.9	55.3	93.7	130	160	182	192	191	178	155	124	88.0	50.3	19.9	3.36	0.10	1649	---
Φ a	0.00	2.64	20.3	54.2	92.8	129	159	180	191	190	177	154	123	86.8	49.1	18.3	2.16	0.00	---	1628

one-half-peak spread: U:55.3,D:54.7 , L:54.2,R:59.9

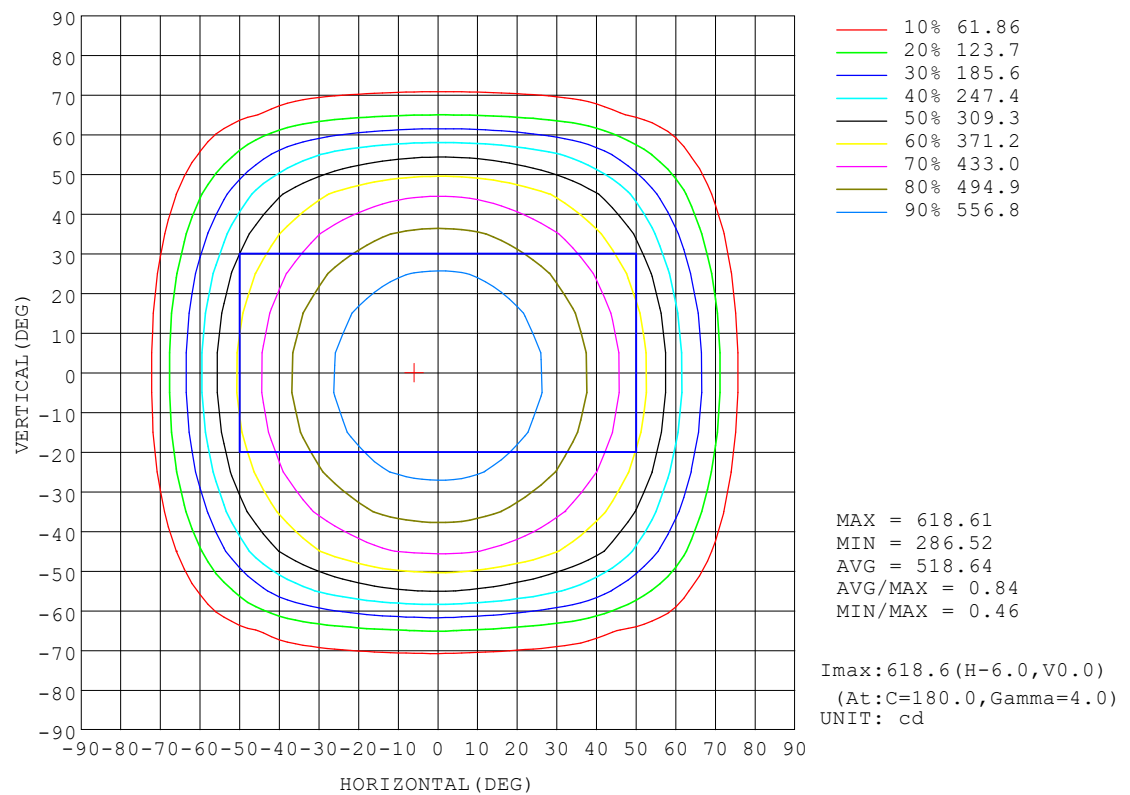
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 July 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 98Vega20Slim	TYPE: 98Vega20Slim	WEIGHT: 1
SPEC.:	DIM.: 0.125x0.075x.007	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

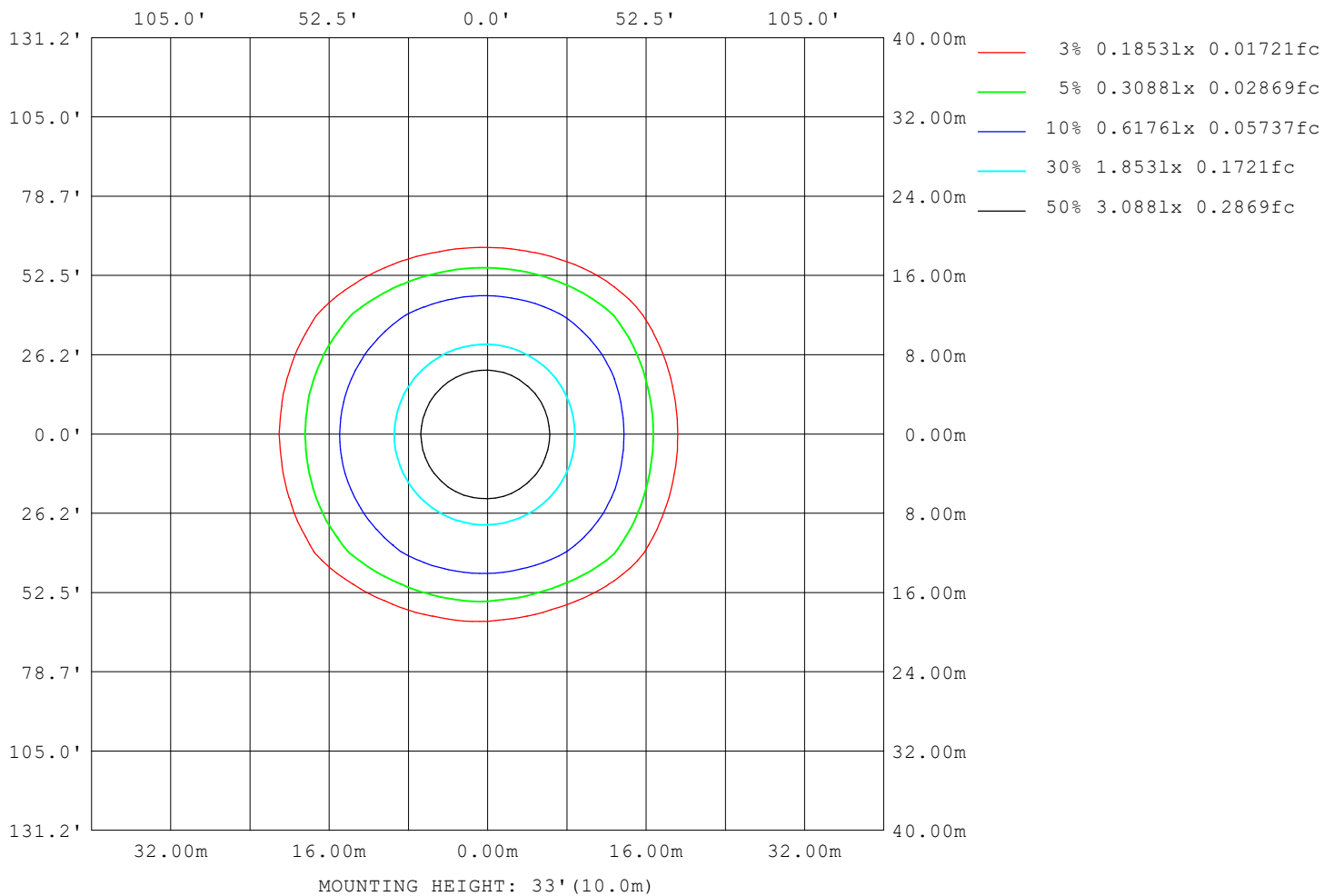


H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:05 July 2022

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

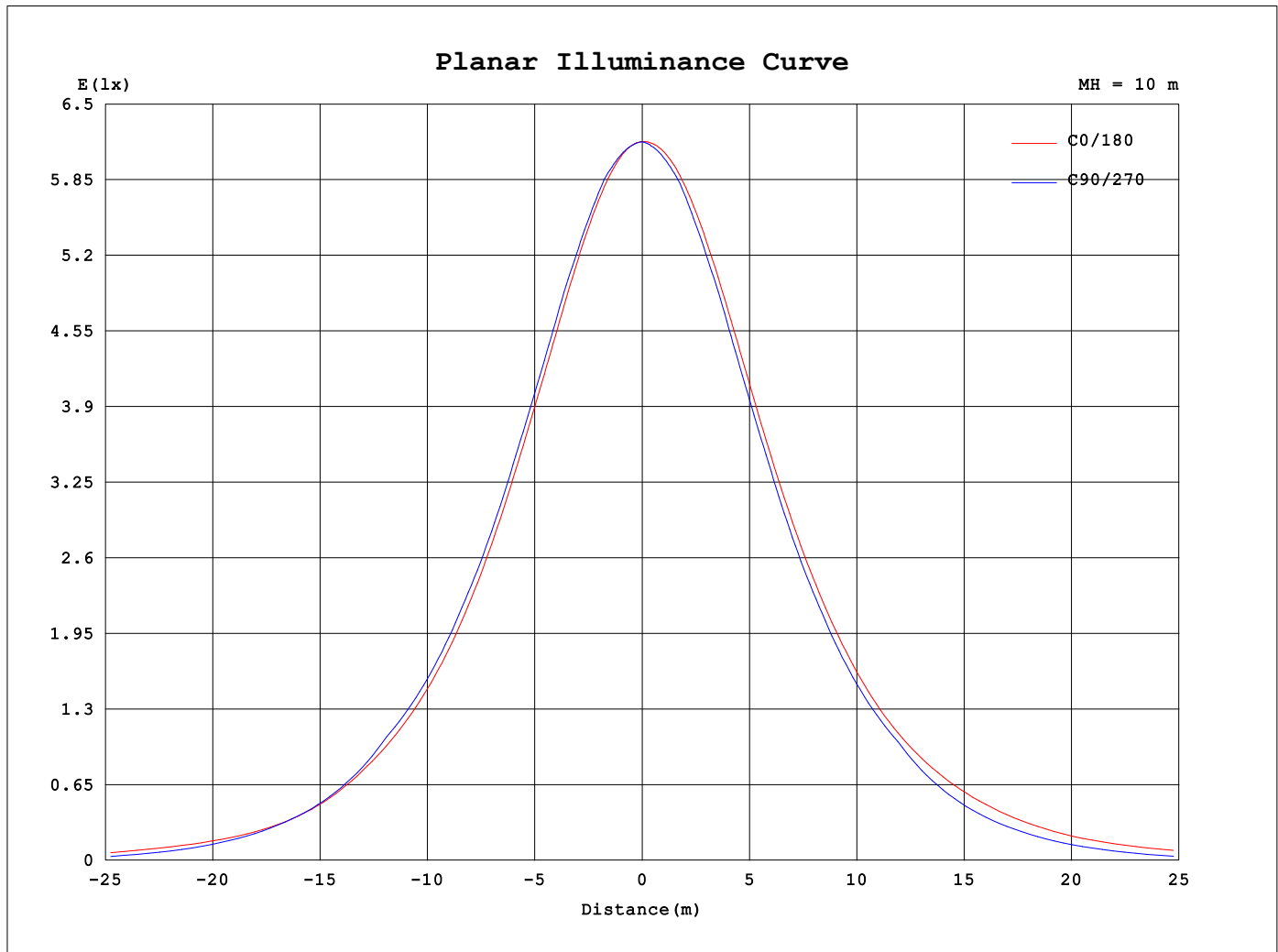
NAME: 98Vega20Slim	TYPE: 98Vega20Slim	WEIGHT: 1
SPEC.:	DIM.: 0.125x0.075x.007	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 July 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

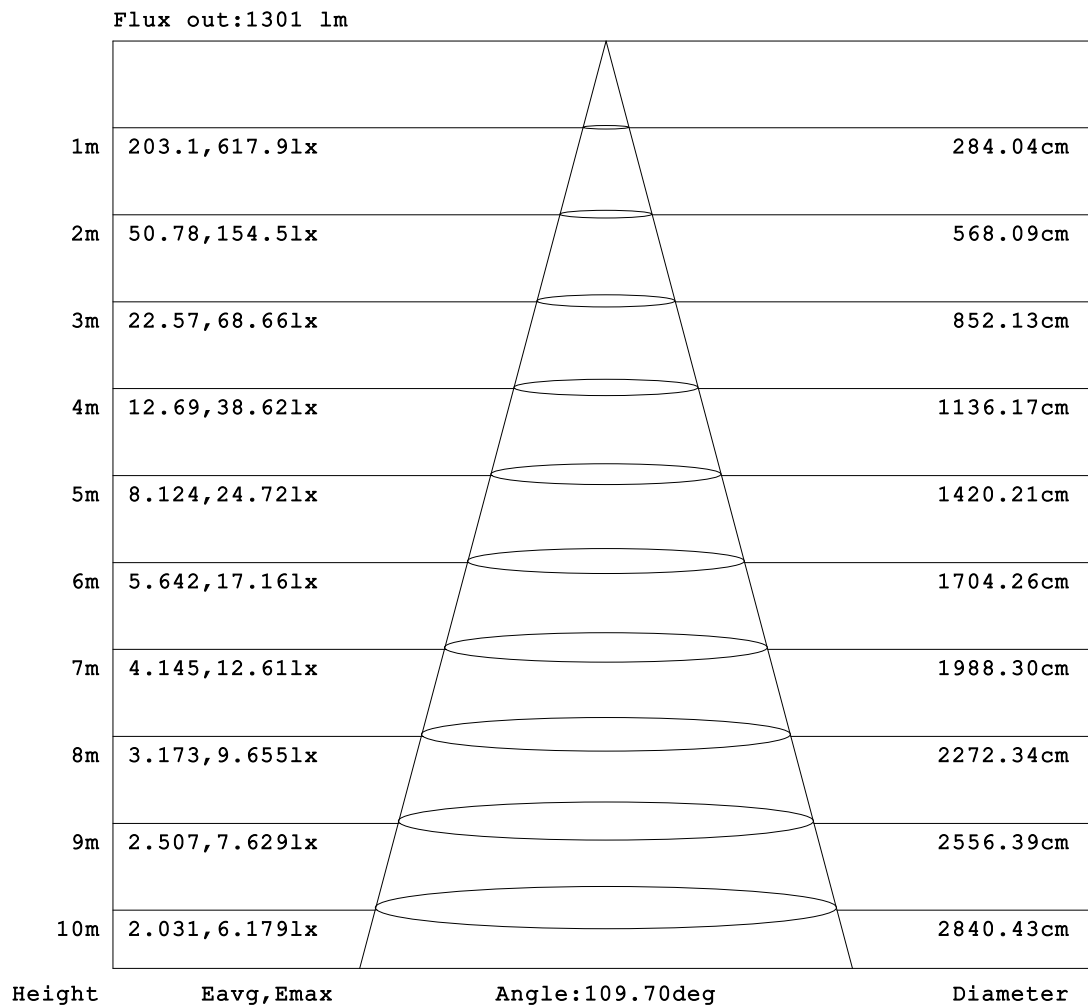


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 July 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 98Vega20Slim	TYPE: 98Vega20Slim	WEIGHT: 1
SPEC.:	DIM.: 0.125x0.075x.007	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



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

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 July 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 98Vega20Slim	TYPE: 98Vega20Slim	WEIGHT: 1
SPEC.:	DIM.: 0.125x0.075x.007	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

Table--1

UNIT: cd

H(°) \ V(°)	-90	-86	-80	-76	-70	-66	-60	-56	-50	-46	-40	-36	-30	-26	-20	-16	-10	-6	0
-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	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	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.44	0.49	0.83	1.07	1.23	1.38	1.64	1.82	2.12	2.36	2.73	2.99	3.37	3.61	3.89	4.05	4.23	4.27	4.20
-75	0.47	0.46	0.88	1.36	2.29	3.10	4.57	5.66	7.40	8.62	10.3	11.3	12.6	13.4	14.4	14.9	15.5	15.7	15.8
-70	0.48	0.87	1.89	2.84	4.97	6.72	9.68	11.8	15.1	17.2	20.0	21.5	23.4	24.5	25.9	26.6	27.2	27.2	27.2
-65	0.51	0.52	1.53	2.69	5.94	10.8	22.8	33.1	51.0	60.7	77.6	87.6	98.6	105	113	117	122	124	126
-60	0.57	1.32	3.49	6.56	16.5	29.6	56.5	76.5	106	125	155	168	186	195	209	214	222	224	221
-55	0.56	0.60	2.27	4.79	15.0	30.6	65.8	95.4	136	165	205	226	252	267	284	294	304	309	312
-50	0.64	1.73	6.08	12.8	44.6	76.7	134	165	223	259	296	318	347	361	379	389	396	398	398
-45	0.61	0.68	3.20	7.57	30.6	61.9	119	161	222	263	310	336	370	388	410	422	434	438	442
-40	0.71	2.19	9.05	24.7	79.1	123	187	237	303	334	376	401	429	445	465	474	481	484	484
-35	0.66	0.73	4.25	11.2	51.3	94.2	165	213	290	330	376	405	441	459	483	496	508	513	516
-30	0.75	2.58	13.4	40.7	109	162	239	294	356	389	435	459	489	506	527	536	544	546	546
-25	0.70	0.77	5.26	16.9	70.9	122	200	259	337	375	425	455	490	510	535	548	560	565	568
-20	0.79	2.99	20.5	56.3	135	187	278	334	393	428	475	499	530	548	569	578	586	589	588
-15	0.74	0.79	6.07	21.5	84.1	142	225	290	366	404	457	486	522	543	568	581	593	598	601
-10	0.80	3.23	22.5	64.2	148	203	301	354	415	451	498	523	555	573	593	602	610	613	612
-5	0.76	0.82	6.57	22.9	91.2	149	239	305	379	418	472	501	537	558	584	596	609	614	616
0	0.84	3.43	23.3	65.2	151	211	309	361	422	458	504	529	561	579	600	609	617	619	618
5	0.78	0.80	6.61	22.8	91.0	149	239	305	378	418	470	499	536	556	582	594	607	612	614
10	0.77	3.18	22.2	63.7	148	204	300	352	413	448	494	519	551	569	589	599	607	609	609
15	0.79	0.77	6.16	21.1	83.8	142	225	289	363	402	453	482	518	538	563	576	589	594	596
20	0.78	2.93	20.0	55.3	135	188	278	331	391	425	470	494	525	542	562	572	580	583	582
25	0.81	0.77	5.36	16.8	70.0	122	200	257	333	372	420	448	484	503	527	540	553	558	560
30	0.77	2.48	13.5	39.8	108	161	237	291	352	384	427	451	481	497	517	526	535	537	537
35	0.81	0.78	4.34	11.6	50.6	93.3	165	211	285	324	371	397	432	450	472	485	498	503	505
40	0.79	2.14	9.76	25.3	78.4	123	185	233	296	329	367	391	419	434	453	462	470	472	472
45	0.81	0.78	3.30	8.13	30.3	61.6	119	158	217	257	304	329	360	378	398	410	422	427	429
50	0.78	1.75	6.49	13.1	44.7	76.0	131	161	217	251	290	310	336	350	366	375	383	385	384
55	0.81	0.78	2.41	5.15	14.9	30.7	64.9	93.1	132	160	199	221	246	260	276	285	294	298	301
60	0.78	1.46	3.81	7.10	16.7	29.2	55.3	75.2	104	122	152	166	184	192	203	208	214	216	216
65	0.80	0.77	1.77	3.01	6.54	11.3	23.0	33.2	50.7	60.4	76.8	87.2	98.7	105	112	116	120	122	124
70	0.76	1.15	2.20	3.24	5.78	7.85	11.2	13.5	17.2	19.5	22.5	24.1	26.0	27.1	28.6	29.3	30.2	30.5	30.2
75	0.78	0.76	1.21	1.74	2.81	3.82	5.54	6.76	8.69	10.1	12.0	13.1	14.4	15.2	16.2	16.8	17.5	17.8	18.0
80	0.75	0.82	1.28	1.54	1.86	2.04	2.36	2.57	2.91	3.17	3.58	3.87	4.31	4.59	4.98	5.20	5.43	5.54	5.51
85	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	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG

H(β) Interval: 2.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:05 July 2022

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 98Vega20Slim	TYPE: 98Vega20Slim	WEIGHT: 1
SPEC.:	DIM.: 0.125x0.075x.007	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

Table--2

UNIT: cd

H (DEG) V (DEG)	4	10	14	20	24	30	34	40	44	50	54	60	64	70	74	80	84	90	
-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	0.00	0.00	0.00	0.00	0.00	0.00	
-85	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	0.00	0.00	0.00	0.00	0.00	
-80	4.09	3.79	3.58	3.19	2.92	2.51	2.21	1.84	1.64	1.39	1.24	1.04	0.93	0.81	0.71	0.57	0.54	0.41	
-75	15.7	15.4	14.9	14.2	13.5	12.3	11.4	9.88	8.73	6.86	5.68	4.09	3.15	1.98	1.43	0.91	0.69	0.52	
-70	26.9	26.1	25.3	23.8	22.5	20.4	18.6	15.6	13.3	9.97	7.97	5.26	3.75	2.05	1.41	0.81	0.58	0.42	
-65	124	119	117	109	104	95.7	89.3	74.8	64.3	53.1	42.9	27.1	17.4	6.56	3.82	1.59	0.98	0.53	
-60	215	207	198	185	175	158	142	113	100	75.8	57.2	29.5	15.4	5.59	2.83	1.14	0.66	0.45	
-55	310	302	296	282	272	252	238	208	184	146	122	86.0	57.2	23.3	9.27	2.91	1.36	0.55	
-50	395	384	376	358	342	317	297	254	216	168	142	84.8	52.0	12.9	5.77	1.58	0.75	0.50	
-45	441	434	426	412	399	373	355	322	293	238	199	149	111	53.9	23.7	4.94	1.88	0.57	
-40	480	468	458	439	423	393	371	333	299	230	190	137	90.3	34.4	10.5	2.19	0.82	0.56	
-35	515	508	500	483	469	443	422	387	360	307	260	193	154	84.8	44.4	7.98	2.59	0.59	
-30	542	531	520	499	483	451	427	387	355	289	236	172	124	54.4	19.6	3.00	0.90	0.61	
-25	567	560	552	534	519	493	471	433	405	355	310	228	184	110	62.0	11.1	3.33	0.60	
-20	584	572	562	540	523	491	466	422	390	330	273	196	151	69.7	25.0	3.67	0.94	0.66	
-15	600	593	585	567	551	525	503	464	433	383	342	255	204	131	75.1	14.6	3.95	0.62	
-10	608	597	586	563	546	515	489	444	411	354	298	212	167	80.5	34.4	4.24	1.03	0.69	
-5	615	608	600	583	567	540	518	478	447	397	356	270	214	142	82.4	17.7	4.32	0.64	
0	615	604	593	570	552	521	495	450	417	359	304	216	171	84.2	36.0	4.40	1.03	0.71	
5	613	607	599	581	565	538	517	477	446	396	356	269	214	142	82.6	18.0	4.36	0.65	
10	605	593	583	560	542	512	487	442	409	352	297	212	167	81.0	34.8	4.32	1.03	0.74	
15	595	588	580	563	547	520	499	460	430	380	340	254	203	131	75.6	15.1	4.04	0.66	
20	578	567	556	534	517	486	461	418	386	328	271	195	151	70.3	25.9	3.76	0.94	0.76	
25	559	553	545	528	513	487	466	428	399	350	307	227	183	111	62.6	11.5	3.44	0.67	
30	534	523	512	492	475	445	421	380	349	287	234	171	124	55.0	20.1	3.12	0.92	0.78	
35	504	498	491	474	460	435	415	379	352	303	257	192	153	84.1	45.0	8.35	2.71	0.70	
40	469	459	448	429	414	385	362	325	294	227	188	136	89.1	35.0	10.9	2.30	0.88	0.80	
45	428	423	415	400	387	364	346	313	286	234	196	148	111	53.3	25.2	5.27	2.00	0.72	
50	381	372	363	345	332	306	286	248	212	165	140	85.2	52.6	15.4	6.19	1.71	0.85	0.81	
55	300	296	290	279	269	251	237	208	184	146	123	86.3	58.2	24.0	10.8	3.19	1.50	0.74	
60	214	209	203	192	183	167	151	120	104	80.4	59.6	31.1	16.2	6.12	3.17	1.30	0.82	0.82	
65	123	121	119	114	109	102	95.3	80.7	69.4	56.2	46.3	28.8	18.8	7.18	4.27	1.82	1.17	0.76	
70	29.9	29.3	28.5	27.0	25.7	23.4	21.7	18.6	16.1	12.3	9.86	6.51	4.58	2.43	1.66	1.03	0.79	0.82	
75	17.9	17.5	17.2	16.4	15.7	14.5	13.5	12.0	10.7	8.63	7.22	5.21	4.01	2.49	1.78	1.17	0.92	0.78	
80	5.37	5.12	4.86	4.44	4.14	3.66	3.34	2.86	2.56	2.13	1.87	1.51	1.33	1.13	1.00	0.82	0.78	0.82	
85	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	0.00	0.00	0.00	0.00	0.00	
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	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG

H(β) Interval: 2.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:05 July 2022

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: