

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity	412.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	139.9V x 145.0H
	At 50% of Imax	102.5V x 109.6H
	At 90% of Imax	38.9V x 49.0H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	969.9 lumens per klm.
	To 50% of Imax	747.7 lumens per klm.
	To 90% of Imax	186.4 lumens per klm.

Upward LOR	1.6 %
Downward LOR	98.4 %

Luminaire Efficiency (Light Output Ratio)	100.0 %
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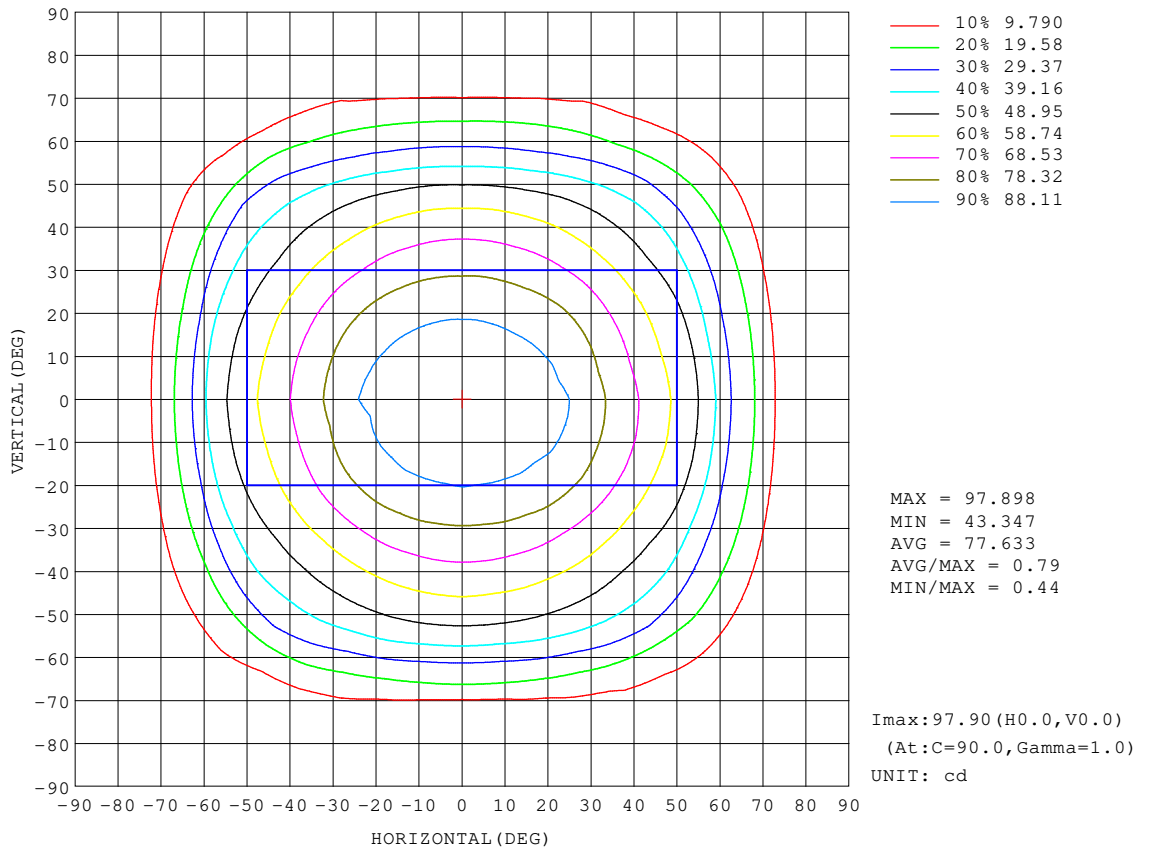
**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: eng. Laskov**  
**Test Date: 05 June 2019**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13**  
**Humidity: 65.0%**  
**Test Distance: 9.420m [K=1.0000]**  
**Remarks: Kpuls = 99.55 %**



**ISOCANDELA DIAGRAM**

Test:U:230.15V I:0.0449A P:10.038W PF:0.9710 Freq:49.99Hz Lamp Flux:237.298x1 lm		
NAME: Floodlight	TYPE:SKU 5989	WEIGHT:
SPEC.:CCT Red	DIM.:	SERIAL No.:
MFR.: V-TAC EUROPE	SUR.:	Shielding Angle:

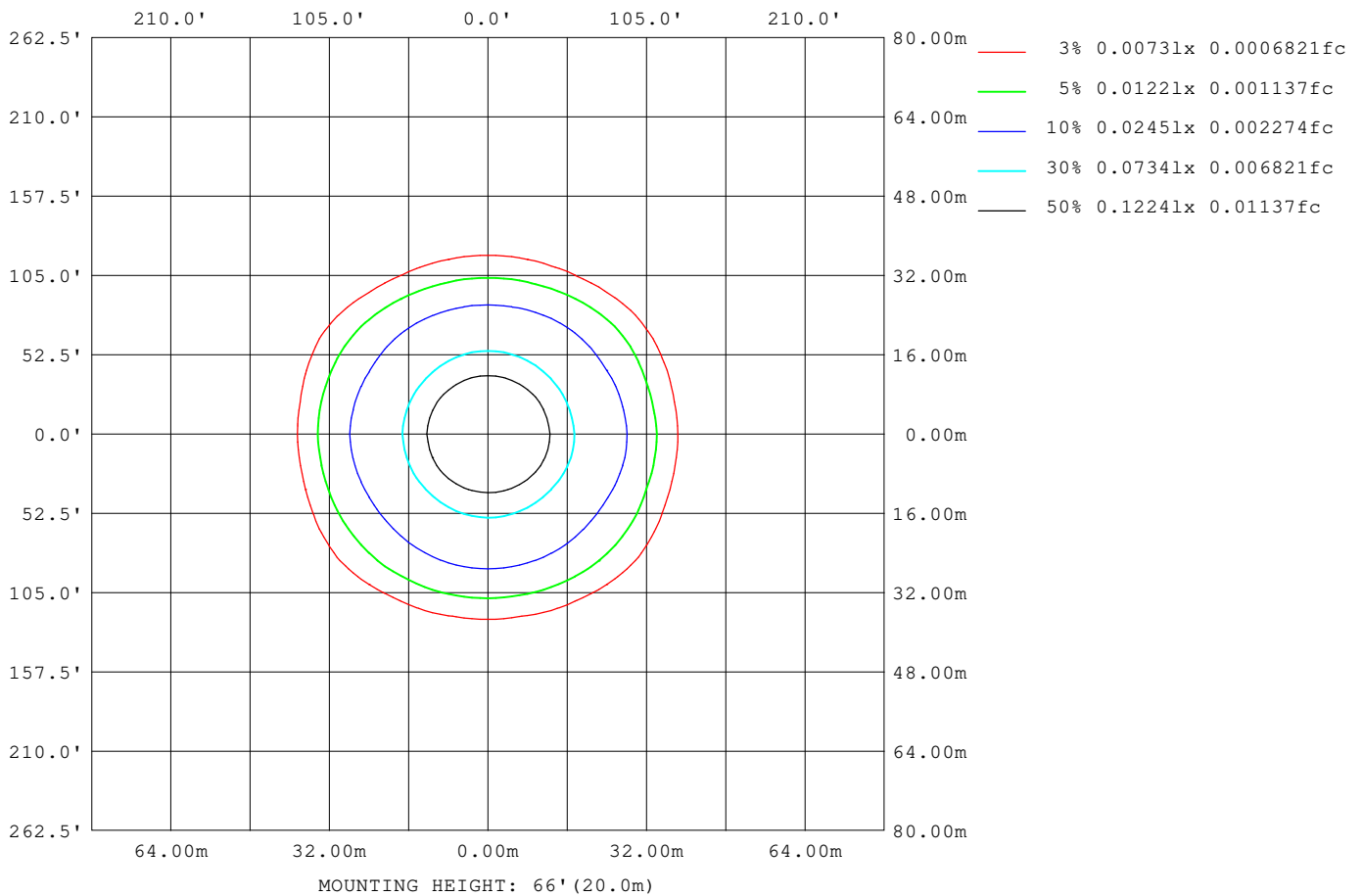


**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:eng. Laskov**  
**Test Date:05 June 2019**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13**  
**Humidity:65.0%**  
**Test Distance:9.420m [K=1.0000]**  
**Remarks: Kpuls =99.55 %**

**ISOLUX DIAGRAM**

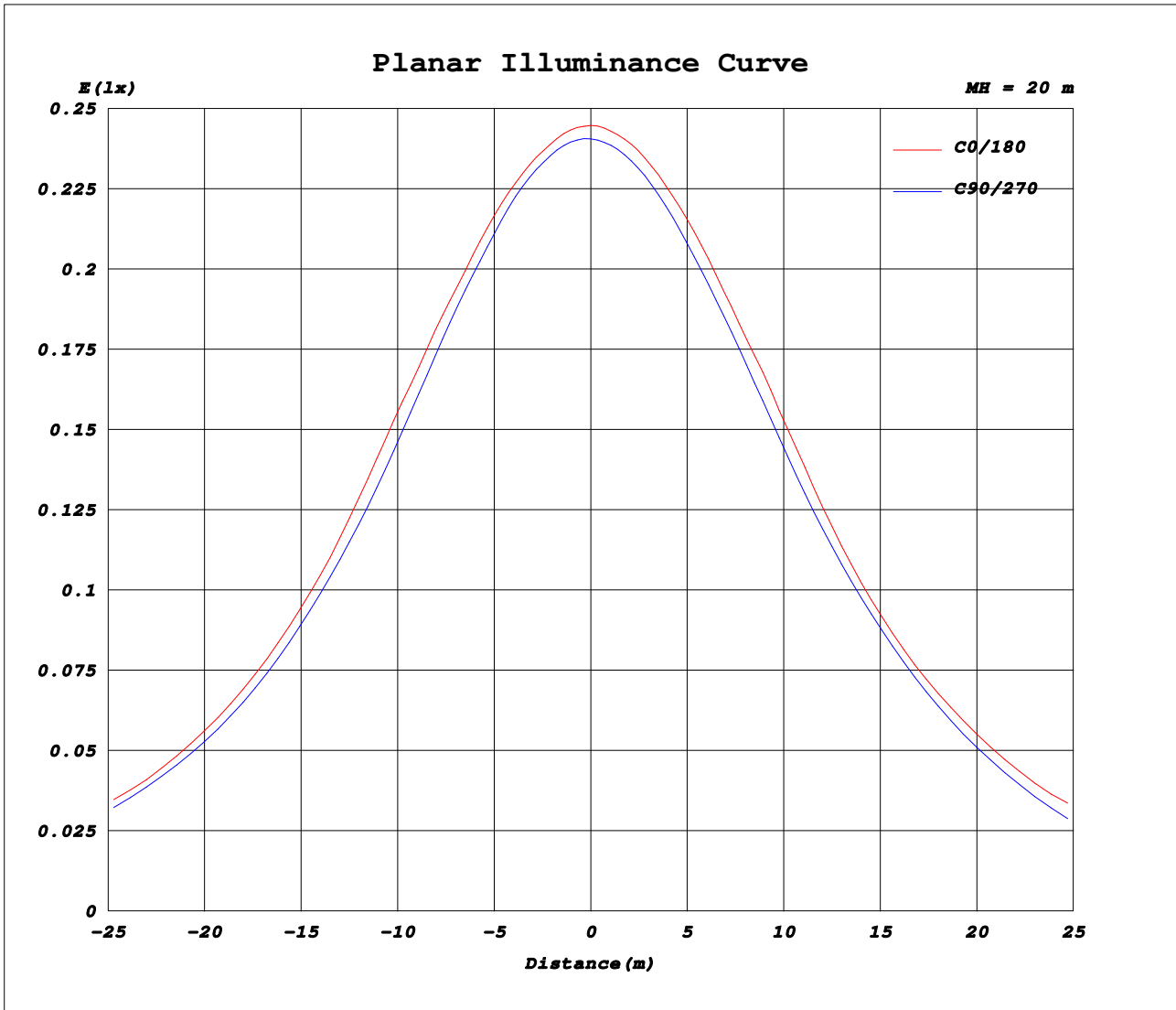
Test:U:230.15V I:0.0449A P:10.038W PF:0.9710 Freq:49.99Hz Lamp Flux:237.298x1 lm		
NAME: Floodlight	TYPE:SKU 5989	WEIGHT:
SPEC.:CCT Red	DIM.:	SERIAL No.:
MFR.: V-TAC EUROPE	SUR.:	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:eng. Laskov**  
**Test Date:05 June 2019**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13**  
**Humidity:65.0%**  
**Test Distance:9.420m [K=1.0000]**  
**Remarks: Kpuls =99.55 %**

**Planar Illuminance Curve**



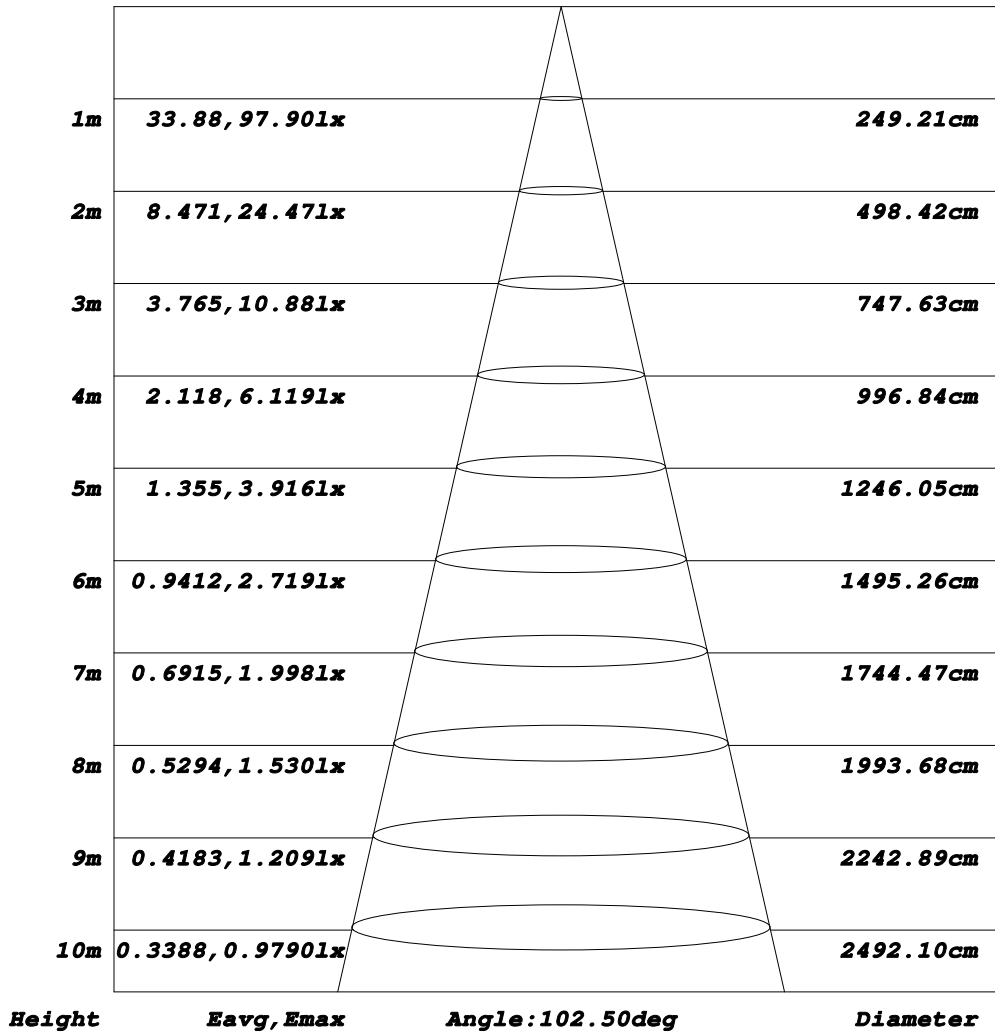
**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: eng. Laskov**  
**Test Date: 05 June 2019**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13**  
**Humidity: 65.0%**  
**Test Distance: 9.420m [K=1.0000]**  
**Remarks: Kpuls = 99.55 %**

**AAI Figure**

Test:U:230.15V I:0.0449A P:10.038W PF:0.9710 Freq:49.99Hz Lamp Flux:237.298x1 lm		
NAME: Floodlight	TYPE:SKU 5989	WEIGHT:
SPEC.:CCT Red	DIM.:	SERIAL No.:
MFR.: V-TAC EUROPE	SUR.:	Shielding Angle:

**Flux out:174.4 lm**



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

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:eng. Laskov  
 Test Date:05 June 2019

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13  
 Humidity:65.0%  
 Test Distance:9.420m [K=1.0000]  
 Remarks: Kpuls =99.55 %

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:230.15V I:0.0449A P:10.038W PF:0.9710 Freq:49.99Hz Lamp Flux:237.298x1 lm		
NAME: Floodlight	TYPE:SKU 5989	WEIGHT:
SPEC.:CCT Red	DIM.:	SERIAL No.:
MFR.: V-TAC EUROPE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H (DEG) \ V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.00	0.02	0.08	0.19	0.31	0.43	0.56	0.69	0.79	0.91	1.00	1.11	1.21	1.30	1.37	1.43	1.47	1.50	1.49
-170	0.00	0.03	0.10	0.21	0.33	0.45	0.58	0.70	0.82	0.93	1.00	1.06	1.11	1.16	1.21	1.25	1.26	1.29	1.31
-160	0.00	0.03	0.11	0.22	0.33	0.45	0.56	0.67	0.77	0.86	0.93	1.00	1.04	1.09	1.12	1.16	1.20	1.22	1.24
-150	0.00	0.04	0.12	0.22	0.32	0.41	0.51	0.60	0.69	0.77	0.83	0.89	0.94	0.99	1.03	1.06	1.08	1.09	1.10
-140	0.00	0.04	0.12	0.21	0.28	0.35	0.43	0.51	0.59	0.65	0.72	0.77	0.81	0.86	0.90	0.93	0.94	0.95	0.97
-130	0.00	0.05	0.12	0.19	0.23	0.29	0.35	0.41	0.46	0.52	0.56	0.61	0.65	0.69	0.72	0.74	0.76	0.77	0.77
-120	0.00	0.05	0.11	0.15	0.19	0.22	0.26	0.30	0.33	0.37	0.40	0.43	0.46	0.48	0.51	0.52	0.54	0.55	0.55
-110	0.00	0.04	0.10	0.12	0.14	0.17	0.18	0.20	0.22	0.23	0.25	0.27	0.28	0.29	0.30	0.31	0.32	0.32	0.32
-100	0.00	0.04	0.09	0.10	0.11	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.16	0.15	0.15
-90	0.00	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.04
-80	0.00	0.04	0.09	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.15	0.16	0.18	0.18	0.15	0.16	0.16
-70	0.00	0.04	0.10	0.13	0.21	0.33	0.81	1.67	2.56	3.95	4.85	6.67	7.24	8.91	8.94	9.60	9.37	9.29	8.88
-60	0.00	0.04	0.11	0.26	0.83	2.53	5.18	8.68	11.7	15.0	19.8	23.2	25.6	27.4	29.4	30.9	31.7	32.4	32.7
-50	0.00	0.05	0.19	0.72	2.95	6.94	12.8	17.3	24.3	31.5	35.9	39.6	42.8	45.6	48.2	50.3	51.9	52.9	53.4
-40	0.00	0.05	0.24	2.01	6.46	13.2	18.4	27.0	36.1	41.6	45.7	49.8	53.6	57.0	60.0	62.6	64.4	65.5	65.9
-30	0.00	0.05	0.30	3.10	8.64	16.9	24.9	36.7	43.7	49.1	54.1	59.0	63.5	67.8	71.6	74.1	76.1	77.1	77.6
-20	0.00	0.05	0.57	5.11	12.7	19.8	30.9	42.4	49.9	55.3	61.6	67.2	72.8	77.8	81.8	84.6	86.5	87.7	88.5
-10	0.00	0.05	0.86	6.05	14.6	22.0	35.8	46.7	53.6	59.7	66.1	72.0	78.2	83.8	87.7	90.5	92.5	93.9	94.6
0	0.00	0.04	0.95	6.40	15.1	22.9	38.0	48.5	55.1	62.4	68.4	74.6	81.3	87.2	90.8	93.9	96.0	97.3	97.9
10	0.00	0.04	0.85	6.10	14.6	22.2	36.0	46.6	53.3	59.8	66.3	72.2	78.3	83.8	87.5	90.3	92.2	93.2	93.4
20	0.00	0.04	0.56	5.35	13.0	19.8	31.4	42.3	49.5	55.3	61.5	66.9	72.2	77.1	80.9	83.6	85.4	86.7	87.0
30	0.00	0.03	0.29	3.19	9.05	17.0	25.6	36.6	43.3	48.6	53.8	58.8	63.3	67.3	70.8	73.5	75.4	76.4	76.7
40	0.00	0.03	0.19	2.25	6.40	13.4	18.7	27.8	35.8	40.7	45.2	49.5	53.2	56.5	59.5	61.8	63.6	64.7	65.0
50	0.00	0.02	0.12	0.70	3.04	6.69	12.3	16.4	23.3	29.4	33.2	36.4	39.5	42.1	44.3	46.0	47.6	48.4	48.5
60	0.00	0.01	0.04	0.17	0.77	2.34	4.64	7.74	10.3	13.4	17.2	19.6	21.6	23.2	24.8	25.8	26.6	27.0	27.1
70	0.00	0.00	0.02	0.04	0.13	0.27	0.71	1.60	2.24	3.91	4.11	5.88	6.84	8.29	8.79	9.45	10.1	10.6	10.3
80	0.00	0.00	0.00	0.01	0.01	0.03	0.04	0.05	0.07	0.09	0.12	0.16	0.21	0.26	0.29	0.31	0.35	0.37	0.39
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
100	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05
110	0.00	0.00	0.01	0.02	0.04	0.05	0.07	0.10	0.12	0.15	0.16	0.19	0.21	0.22	0.24	0.25	0.25	0.26	0.27
120	0.00	0.00	0.01	0.05	0.08	0.12	0.17	0.22	0.27	0.30	0.35	0.40	0.42	0.45	0.48	0.49	0.50	0.51	0.52
130	0.00	0.01	0.03	0.08	0.14	0.20	0.27	0.34	0.41	0.48	0.52	0.57	0.61	0.65	0.68	0.70	0.72	0.73	0.74
140	0.00	0.01	0.05	0.12	0.19	0.28	0.37	0.46	0.54	0.62	0.67	0.73	0.79	0.84	0.88	0.90	0.92	0.93	0.94
150	0.00	0.01	0.07	0.14	0.24	0.34	0.45	0.56	0.64	0.73	0.80	0.88	0.95	1.02	1.07	1.12	1.15	1.15	1.17
160	0.00	0.01	0.08	0.17	0.27	0.39	0.51	0.62	0.72	0.81	0.91	0.99	1.09	1.16	1.22	1.27	1.31	1.32	1.33
170	0.00	0.02	0.08	0.18	0.30	0.42	0.55	0.67	0.78	0.88	0.98	1.08	1.17	1.25	1.32	1.38	1.43	1.45	1.43
180	0.00	0.02	0.08	0.19	0.31	0.43	0.56	0.69	0.79	0.91	1.00	1.11	1.21	1.30	1.37	1.43	1.47	1.50	1.49

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:eng. Laskov**  
**Test Date:05 June 2019**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13**  
**Humidity:65.0%**  
**Test Distance:9.420m [K=1.0000]**  
**Remarks: Kpuls =99.55 %**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:230.15V I:0.0449A P:10.038W PF:0.9710 Freq:49.99Hz Lamp Flux:237.298x1 lm		
NAME: Floodlight	TYPE:SKU 5989	WEIGHT:
SPEC.:CCT Red	DIM.:	SERIAL No.:
MFR.: V-TAC EUROPE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

H (DEG) \ V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	1.43	1.33	1.28	1.25	1.20	1.15	1.10	1.01	0.95	0.87	0.75	0.63	0.50	0.39	0.27	0.20	0.13	0.09
-170	1.31	1.28	1.25	1.22	1.16	1.11	1.06	0.99	0.92	0.83	0.73	0.61	0.48	0.37	0.27	0.19	0.13	0.09
-160	1.23	1.19	1.16	1.12	1.10	1.05	1.00	0.93	0.87	0.78	0.68	0.56	0.45	0.35	0.26	0.19	0.13	0.09
-150	1.10	1.09	1.06	1.03	1.00	0.95	0.90	0.85	0.78	0.70	0.61	0.50	0.41	0.31	0.24	0.18	0.13	0.09
-140	0.97	0.95	0.93	0.90	0.87	0.83	0.78	0.72	0.67	0.59	0.51	0.43	0.35	0.28	0.21	0.16	0.12	0.09
-130	0.77	0.76	0.74	0.72	0.69	0.66	0.62	0.57	0.52	0.47	0.41	0.34	0.28	0.23	0.19	0.15	0.11	0.09
-120	0.55	0.54	0.53	0.52	0.49	0.47	0.44	0.41	0.37	0.33	0.29	0.26	0.22	0.19	0.16	0.13	0.11	0.09
-110	0.32	0.32	0.31	0.31	0.30	0.28	0.27	0.25	0.24	0.22	0.20	0.19	0.16	0.14	0.13	0.11	0.10	0.09
-100	0.15	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.11	0.11	0.11	0.10	0.09	0.09	0.09
-90	0.03	0.03	0.04	0.04	0.05	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.09	0.09	0.08	0.09	0.09
-80	0.17	0.18	0.20	0.21	0.20	0.20	0.21	0.20	0.20	0.18	0.18	0.17	0.15	0.13	0.11	0.10	0.09	0.09
-70	8.96	8.90	8.95	8.23	7.63	6.75	6.06	4.95	3.93	2.71	1.88	1.03	0.50	0.31	0.20	0.14	0.10	0.09
-60	32.5	31.7	30.8	29.5	27.5	25.4	22.8	19.1	15.3	12.5	9.56	5.96	3.02	1.09	0.39	0.20	0.11	0.09
-50	53.0	52.1	50.7	48.8	46.4	43.4	40.1	36.1	31.3	24.3	19.1	14.2	8.16	3.52	1.02	0.30	0.13	0.09
-40	65.6	64.6	62.9	60.7	58.1	54.9	51.0	46.6	42.2	35.8	27.0	20.3	14.7	7.52	2.48	0.41	0.15	0.09
-30	77.3	76.6	74.8	72.4	68.9	64.9	60.4	55.3	50.5	44.3	35.4	25.5	18.8	10.1	3.78	0.51	0.17	0.09
-20	87.9	86.9	85.4	82.9	79.4	74.9	69.2	63.4	57.2	51.8	42.5	30.8	21.9	13.9	5.42	0.87	0.19	0.09
-10	94.3	93.4	91.7	89.4	85.9	80.8	74.5	68.7	62.1	55.8	47.2	35.1	23.9	16.0	6.87	1.26	0.20	0.09
0	97.4	96.2	94.5	91.7	88.1	82.9	76.2	69.9	63.6	57.0	48.8	36.6	24.6	16.7	7.43	1.40	0.20	0.09
10	92.9	91.8	90.1	87.8	84.4	79.2	72.7	66.9	60.5	54.7	46.5	34.9	23.7	16.0	6.89	1.24	0.19	0.09
20	86.7	85.4	83.7	81.3	78.1	73.2	67.7	62.2	56.2	50.6	41.4	30.3	21.5	13.9	5.49	0.83	0.17	0.09
30	76.5	75.5	73.8	71.4	68.1	64.0	59.5	54.5	49.5	43.8	34.4	25.2	18.6	10.0	3.75	0.44	0.14	0.09
40	64.8	63.7	62.0	59.9	57.0	53.7	50.0	45.8	40.9	34.2	26.5	20.1	14.8	7.54	2.44	0.32	0.12	0.09
50	48.4	47.6	46.2	44.7	42.5	39.9	36.7	33.0	28.2	22.6	17.9	13.8	8.15	3.53	0.90	0.20	0.09	0.09
60	27.0	26.5	25.7	24.7	23.4	21.6	19.0	16.7	13.5	11.2	8.42	5.52	2.87	0.97	0.25	0.09	0.07	0.09
70	10.6	10.2	9.64	9.02	8.24	6.96	6.06	4.74	3.76	2.85	1.76	0.97	0.38	0.18	0.08	0.04	0.06	0.09
80	0.38	0.37	0.34	0.33	0.29	0.24	0.20	0.16	0.12	0.10	0.08	0.06	0.04	0.02	0.01	0.01	0.04	0.09
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	0.04	0.09
100	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.09
110	0.26	0.26	0.25	0.23	0.22	0.21	0.20	0.17	0.15	0.12	0.10	0.07	0.05	0.02	0.01	0.01	0.06	0.09
120	0.52	0.51	0.49	0.47	0.44	0.42	0.39	0.36	0.32	0.26	0.21	0.16	0.11	0.07	0.04	0.03	0.06	0.09
130	0.73	0.72	0.70	0.67	0.64	0.61	0.57	0.52	0.47	0.41	0.33	0.26	0.18	0.12	0.07	0.06	0.07	0.09
140	0.93	0.92	0.90	0.86	0.83	0.78	0.72	0.66	0.59	0.53	0.45	0.35	0.26	0.17	0.10	0.08	0.09	0.09
150	1.15	1.13	1.10	1.06	1.00	0.93	0.85	0.77	0.70	0.62	0.53	0.44	0.31	0.21	0.15	0.12	0.10	0.09
160	1.32	1.30	1.27	1.20	1.14	1.06	0.96	0.87	0.78	0.69	0.60	0.50	0.38	0.29	0.20	0.15	0.11	0.09
170	1.44	1.41	1.37	1.31	1.22	1.14	1.04	0.94	0.84	0.75	0.67	0.57	0.45	0.34	0.24	0.17	0.12	0.09
180	1.43	1.33	1.28	1.25	1.20	1.15	1.10	1.01	0.95	0.87	0.75	0.63	0.50	0.39	0.27	0.20	0.13	0.09

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: eng. Laskov**  
**Test Date: 05 June 2019**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.407.13**  
**Humidity: 65.0%**  
**Test Distance: 9.420m [K=1.0000]**  
**Remarks: Kpuls = 99.55 %**