

# LUMINAIRE PHOTOMETRIC TEST REPORT

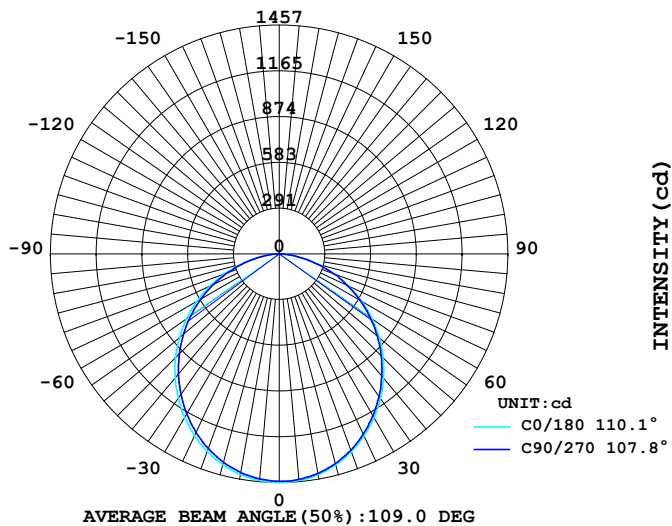
Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Elka	TYPE: IL-PL20-N04040-110	WEIGHT:
SPECIFICATION: Ra80 4000K	DIMENSION: 595*595	SERIAL No.:

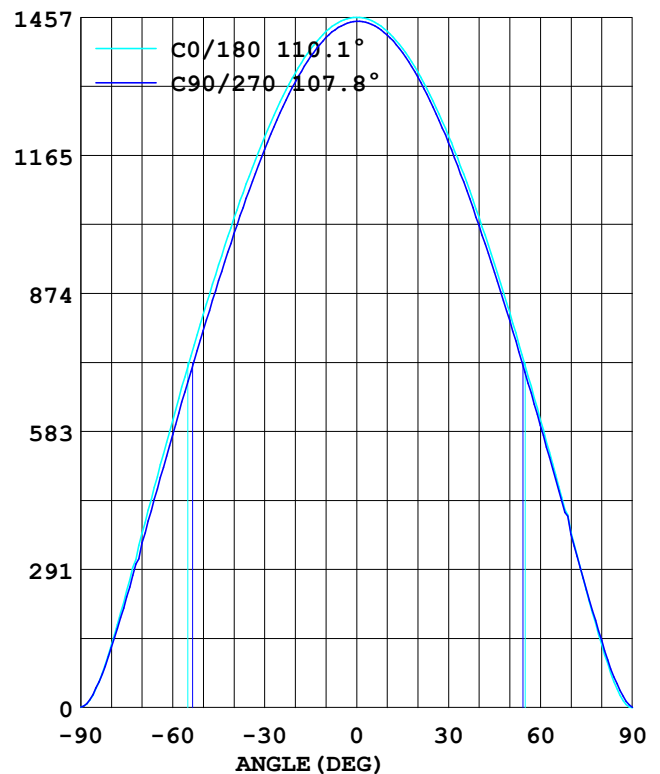
DATA OF LAMP		Imax(cd)	1457	S/MH (C0/180)	1.24
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.22
NOMINAL POWER(W)	38	TOTAL FLUX(lm)	3936.4	Voltage(V)	219.8
RATED VOLTAGE (V)	220	EFFICIENCY (lm/W)	102.2	Current(A)	0.179
NOMINAL FLUX(lm)	3936.5	$\eta$ up (%)	0.0	Power(W)	38.50
LAMPS QUANTITY	1	$\eta$ down (%)	100.0	Power Factor (PF)	0.979
TEST VOLTAGE (V)	219.8	Effective Flux(lm)	3936.5	EEI	0.133

## LUMINOUS INTENSITY DISTRIBUTION

## LUMINOUS INTENSITY DISTRIBUTION



INTENSITY (cd)



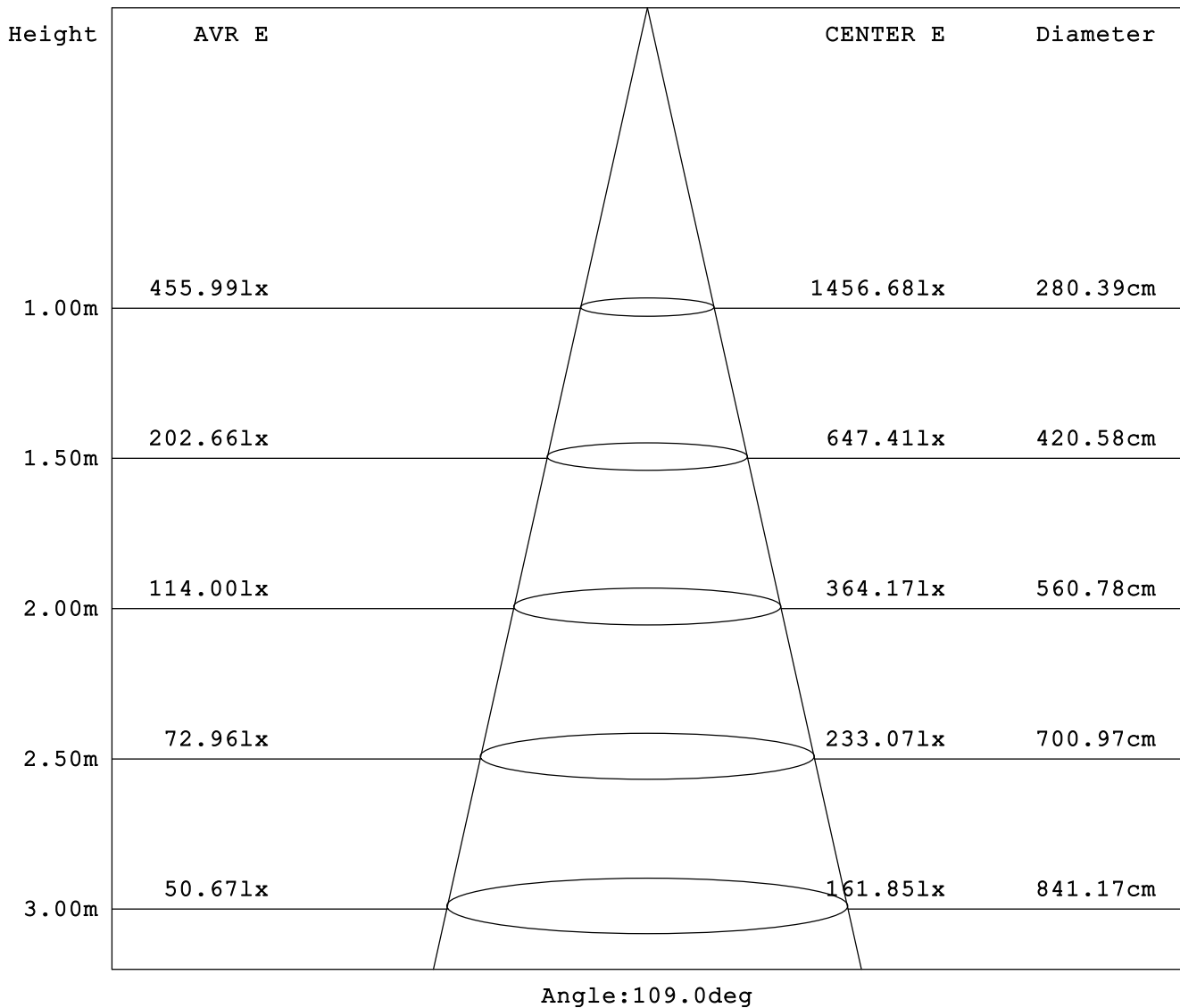
Test System:  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2024-07-06

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Elka	TYPE: IL-PL20-N04040-110	WEIGHT:
SPECIFICATION: Ra80 4000K	DIMENSION: 595*595	SERIAL No.:



Test System:  
Temperature: 25.3DEG  
Operators:  
Test Date: 2024-07-06

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks:

## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Elka	TYPE: IL-PL20-N04040-110	WEIGHT:
SPECIFICATION: Ra80 4000K	DIMENSION: 595*595	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1449	1442	1438	1435	1449	1445	1442	1440	0- 5	34.58	34.58
10.0	1427	1418	1414	1410	1427	1423	1419	1420	5- 10	102.4	136.9
15.0	1390	1380	1373	1371	1391	1387	1382	1384	10- 15	166.2	303.2
20.0	1339	1327	1320	1318	1342	1337	1331	1336	15- 20	223.5	526.7
25.0	1278	1262	1255	1252	1280	1275	1267	1274	20- 25	272.5	799.3
30.0	1204	1189	1178	1178	1207	1201	1192	1201	25- 30	311.4	1111
35.0	1121	1103	1091	1092	1126	1119	1110	1121	30- 35	339.2	1450
40.0	1033	1010	999.9	999.0	1034	1028	1017	1030	35- 40	355.2	1805
45.0	934.3	913.0	900.6	901.8	936.1	930.1	918.3	933.2	40- 45	359.1	2165
50.0	829.6	807.1	795.4	796.0	833.6	828.6	816.5	832.3	45- 50	351.2	2516
55.0	721.4	697.4	688.7	686.2	723.0	719.6	707.6	724.0	50- 55	331.6	2847
60.0	605.8	584.4	575.8	573.5	607.8	609.2	595.2	613.9	55- 60	301.3	3149
65.0	487.0	466.2	460.9	455.6	491.2	492.7	482.1	497.9	60- 65	261.1	3410
70.0	368.1	346.3	347.2	336.1	369.5	374.1	365.2	380.2	65- 70	213.4	3623
75.0	246.9	230.6	233.3	220.8	246.8	260.5	248.8	267.1	70- 75	157.2	3781
80.0	131.0	122.0	126.5	113.5	133.5	147.6	142.4	154.7	75- 80	100.4	3881
85.0	40.07	32.07	41.58	27.28	39.48	49.67	50.48	55.38	80- 85	46.45	3927
90.0	0.780	0	0.780	0	0	2.280	0.580	3.580	85- 90	8.998	3936
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024-07-06

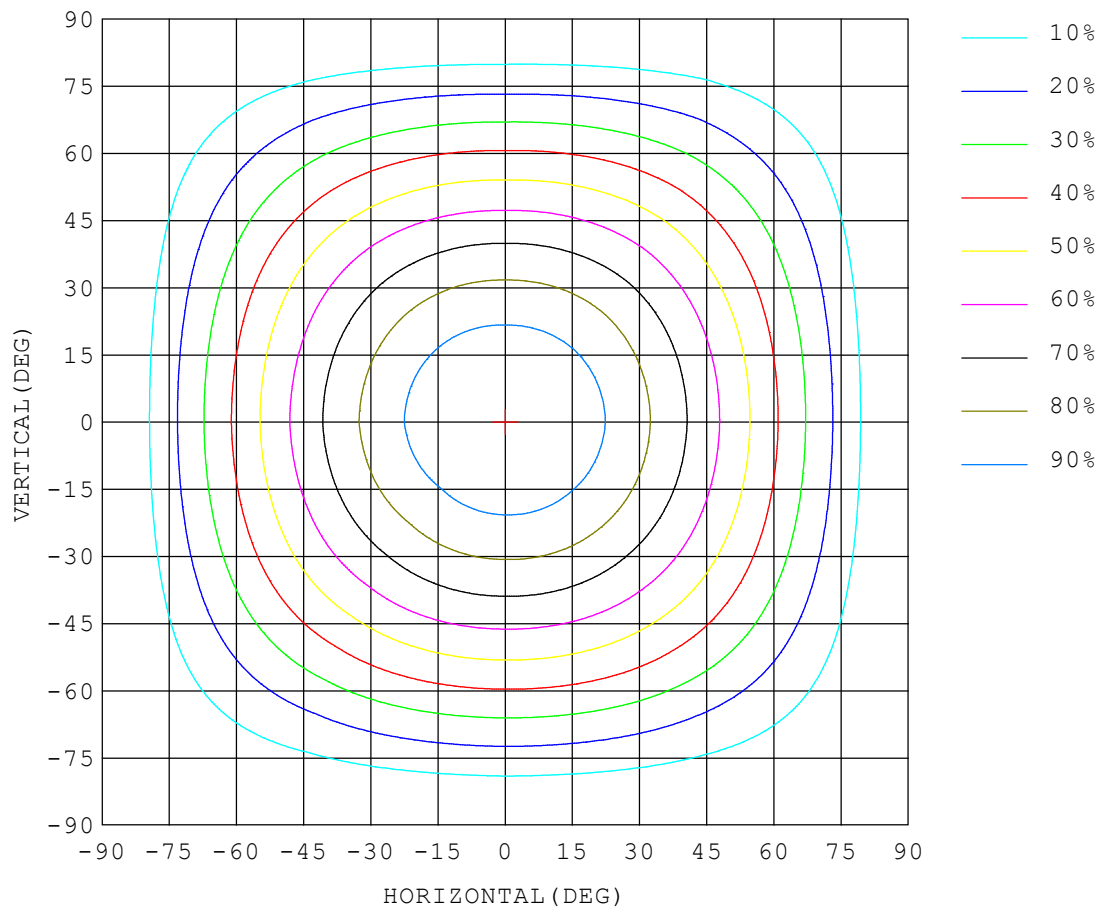
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Elka	TYPE: IL-PL20-N04040-110	WEIGHT:
SPECIFICATION: Ra80 4000K	DIMENSION: 595*595	SERIAL No.:

UNIT: cd



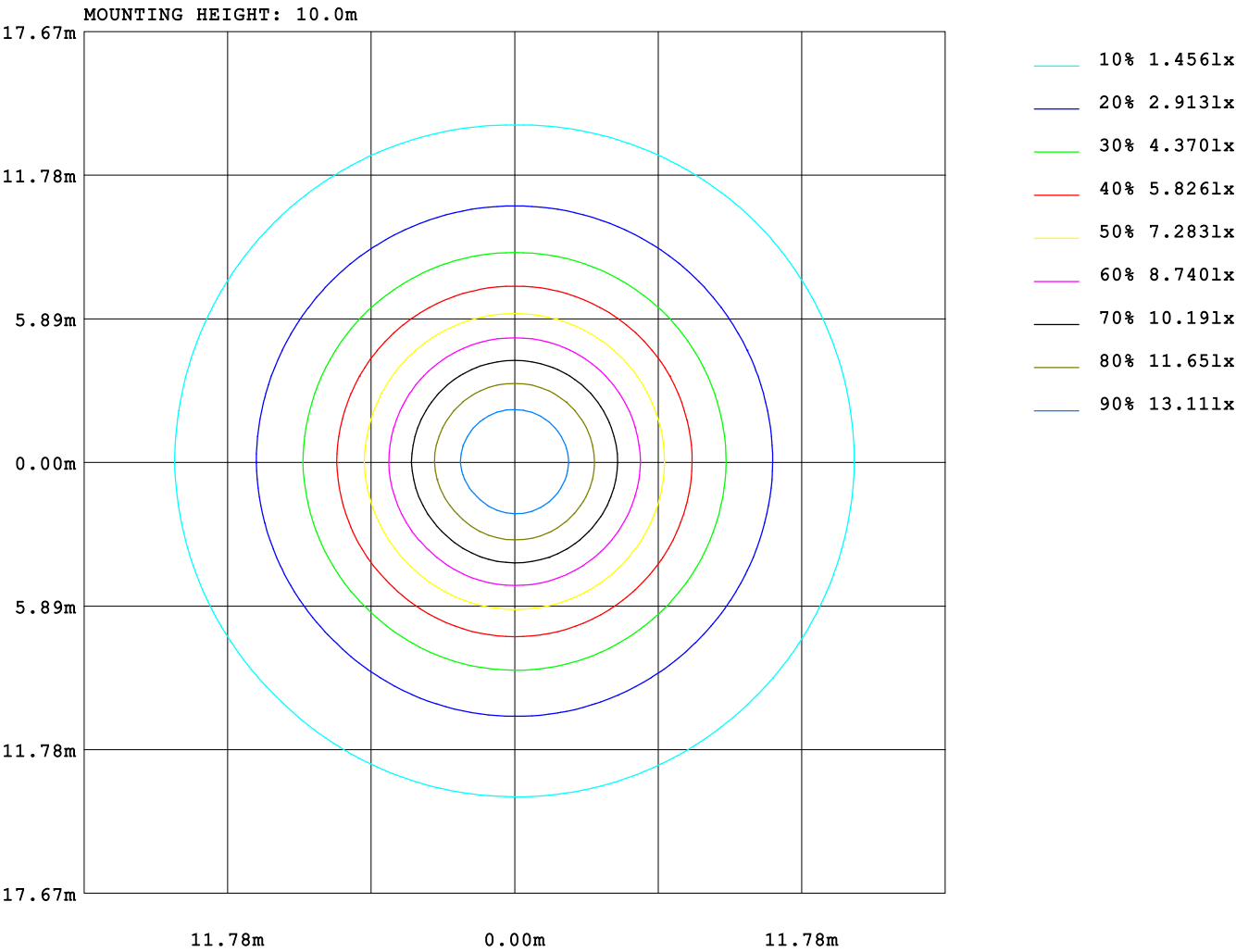
Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2024-07-06

Test Set: 5.0 deg/s C-Gamma (TYPE C)  
Humidity: 65.0%  
Test Distance: 10.000 m  
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH	Address:	
NAME: Elka	TYPE: IL-PL20-N04040-110	WEIGHT:
SPECIFICATION: Ra80 4000K	DIMENSION: 595*595	SERIAL No.:



Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024-07-06

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## Uncorrected UGR Table

Report number:

MANUFACTURER: ILUMEN GMBH	Address:			
NAME: Elka	TYPE:IL-PL20-N04040-110		WEIGHT:	
SPECIFICATION:Ra80 4000K	DIMENSION: 595*595		SERIAL No.:	

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	17.2	18.7	17.4	18.9	19.1	17.0	18.5	17.2	18.7	18.9
3H	18.6	20.0	18.9	20.2	20.5	18.4	19.8	18.7	20.0	20.2
4H	19.1	20.5	19.5	20.7	21.0	18.9	20.2	19.2	20.5	20.7
6H	19.5	20.7	19.8	21.0	21.3	19.2	20.5	19.5	20.7	21.0
8H	19.5	20.7	19.9	21.0	21.3	19.3	20.5	19.6	20.8	21.1
12H	19.5	20.7	19.9	21.0	21.3	19.3	20.4	19.6	20.7	21.0
4H 2H	17.7	19.0	18.0	19.3	19.5	17.6	18.9	17.9	19.1	19.4
3H	19.3	20.5	19.7	20.8	21.1	19.1	20.3	19.5	20.6	20.9
4H	20.0	21.0	20.4	21.4	21.7	19.8	20.8	20.1	21.1	21.5
6H	20.4	21.3	20.8	21.7	22.1	20.2	21.1	20.6	21.5	21.8
8H	20.5	21.4	20.9	21.7	22.1	20.3	21.2	20.7	21.5	21.9
12H	20.5	21.3	21.0	21.7	22.1	20.3	21.1	20.8	21.5	21.9
8H 4H	20.2	21.0	20.6	21.4	21.8	20.0	20.9	20.4	21.2	21.6
6H	20.7	21.4	21.2	21.8	22.3	20.5	21.2	21.0	21.6	22.1
8H	20.9	21.5	21.3	21.9	22.4	20.7	21.3	21.1	21.7	22.2
12H	20.9	21.5	21.4	21.9	22.4	20.8	21.3	21.2	21.8	22.2
12H 4H	20.2	21.0	20.6	21.4	21.8	20.0	20.8	20.4	21.2	21.6
6H	20.7	21.4	21.2	21.8	22.2	20.6	21.2	21.0	21.6	22.1
8H	20.9	21.5	21.4	21.9	22.4	20.7	21.3	21.2	21.7	22.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 3936 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.8)

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024-07-06

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: