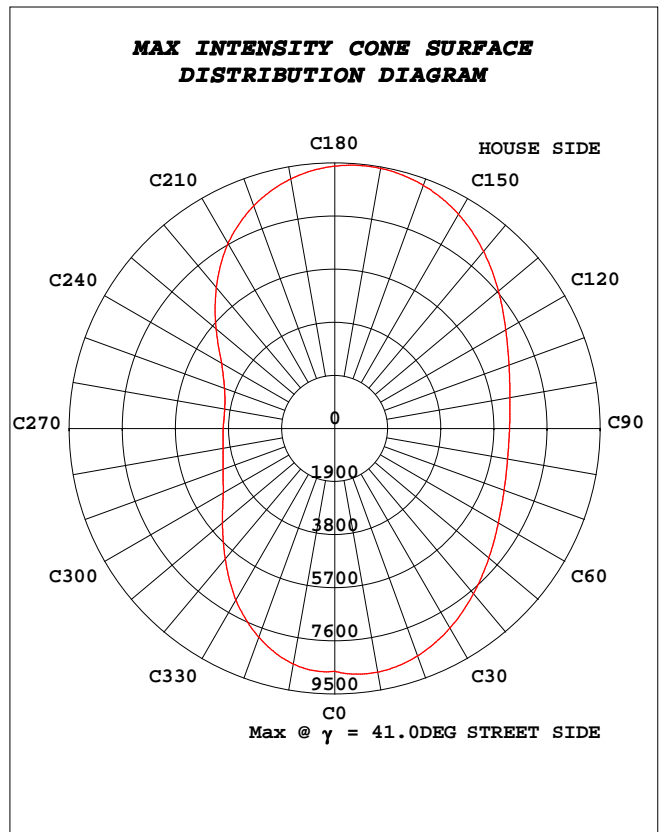
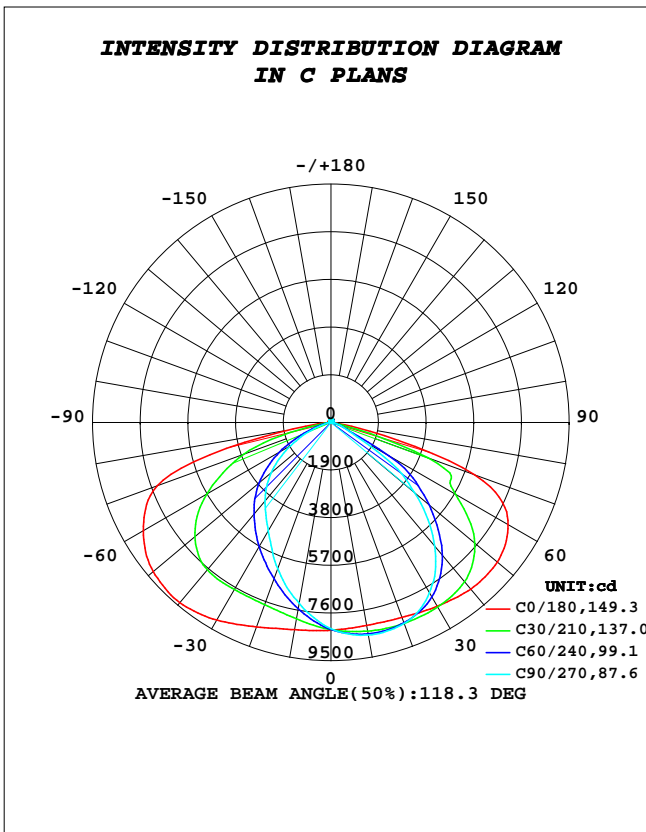


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz		
Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.29 lm/W			
MODEL		I <sub>max</sub> (cd)	9387	η street_up(%)	1.4
NOMINAL POWER(W)	200	LOR(%)	100.0	η street_down(%)	52.2
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	26922	η house_up(%)	1.0
NOMINAL FLUX(lm)	26921.9	MAXIMUM @(C,γ )	180,41.0	η house_down(%)	45.4
LAMPS INSIDE	1	η up(%)	2.3	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	220	η down(%)	97.7	SLI	

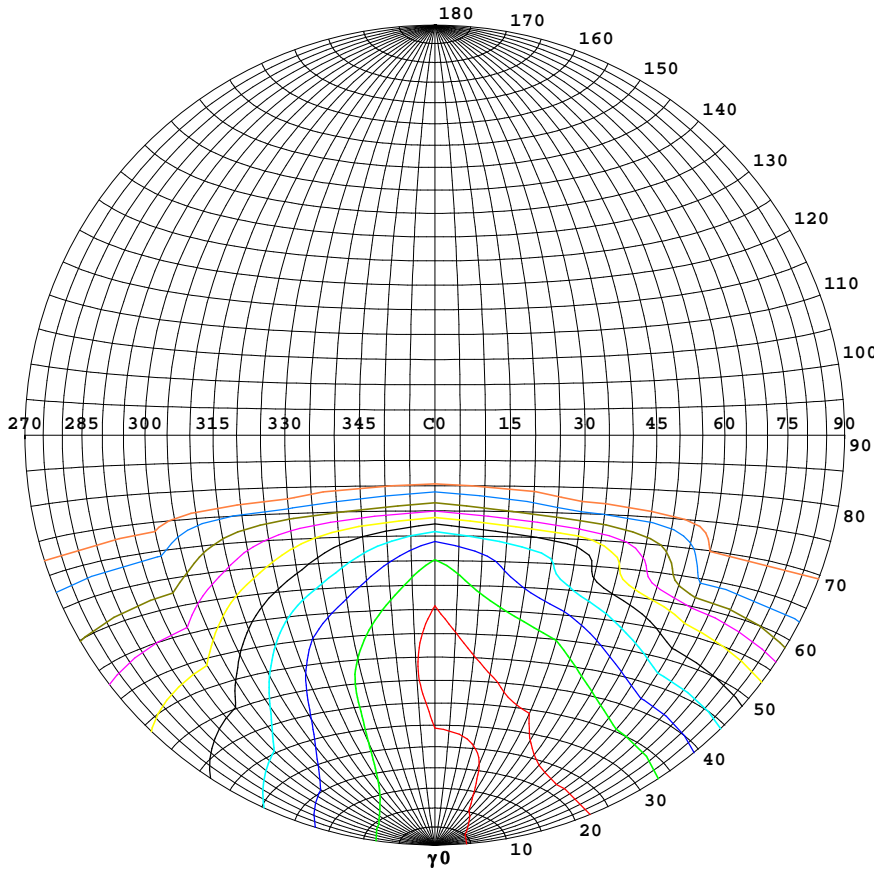


**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz		
Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	



**Classification:**

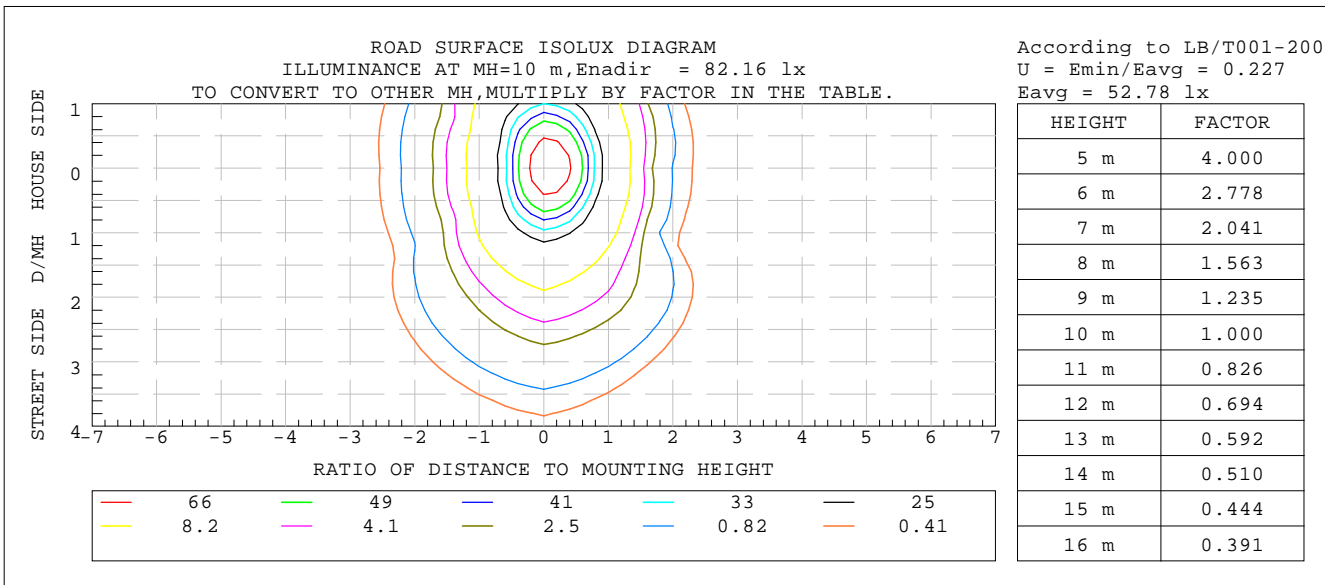
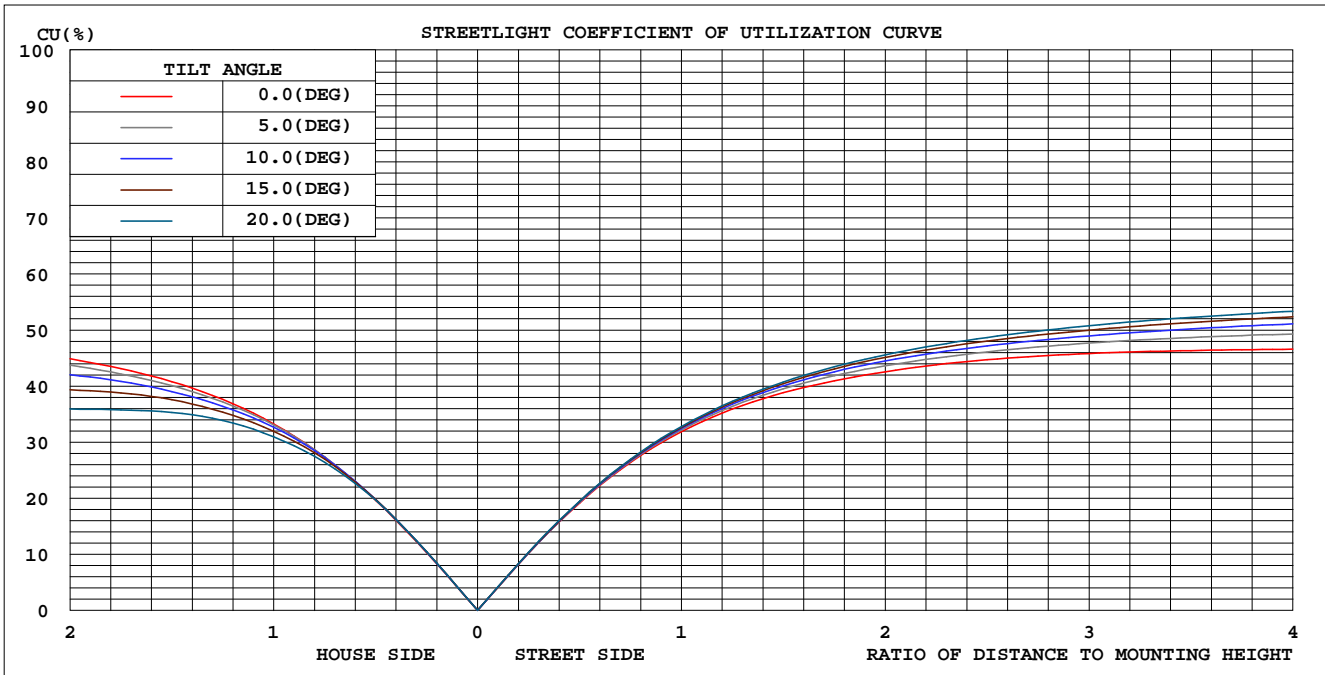
IES:Type II - Very Short  
 CIE:Broad - Short  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:57.12cd/klm  
 Max.At90:3.566cd/klm  
 Max.80-90:57.12cd/klm  
 NRB 5101:Limited[1.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	9387
— 90%	8448
— 80%	7510
— 70%	6571
— 60%	5632
— 50%	4694
— 40%	3755
— 30%	2816
— 20%	1877
— 10%	939
— 5%	469

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-04-25**

**gamma Range: 0 - 180DEG**  
**gamma Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-04-25**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**ZONAL FLUX DIAGRAM**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	

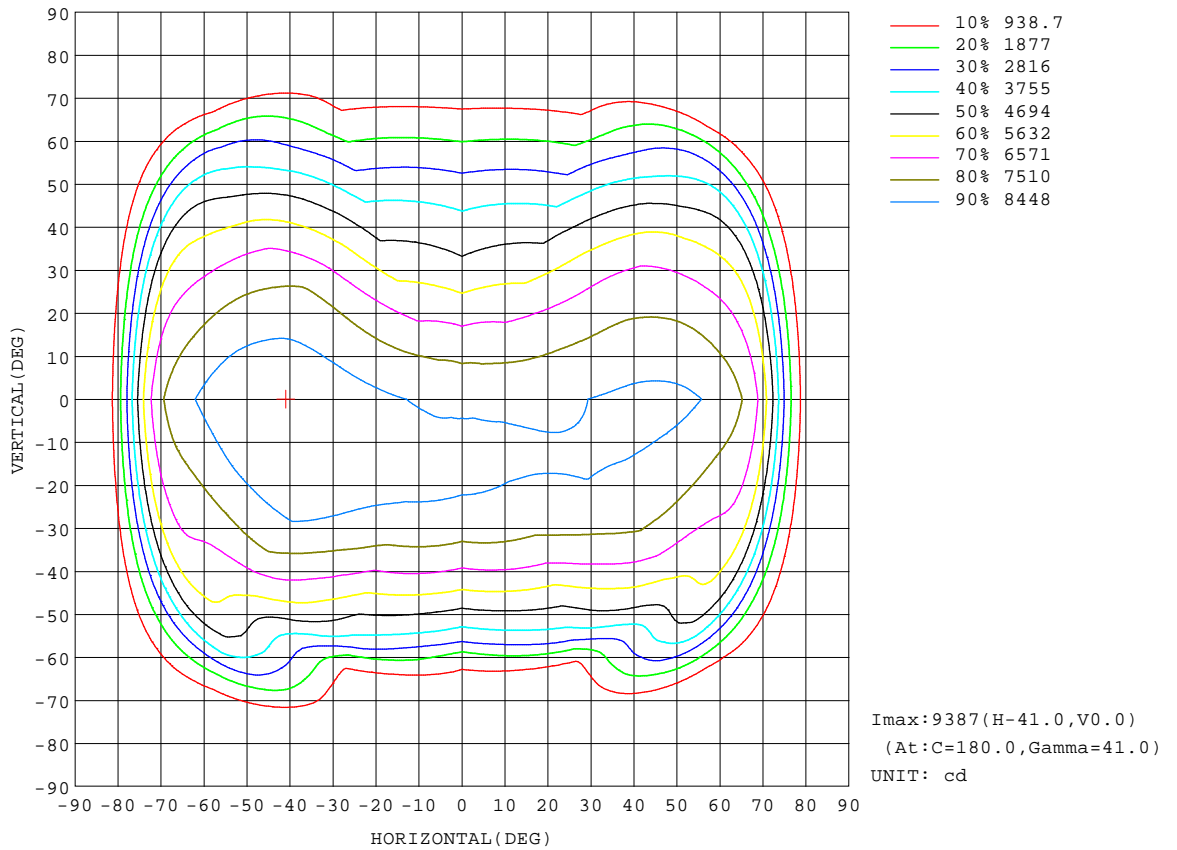
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	8215	8500	8600	8571	8390	7746	7320	7604	0- 10	779.7	779.7	2.9,2.9
20	8270	8512	8531	8740	8672	7185	6211	7034	10- 20	2267	3047	11.3,11.3
30	8464	8269	7852	8604	9099	6710	5000	6475	20- 30	3572	6618	24.6,24.6
40	8673	7601	6440	8051	9378	6220	4089	5912	30- 40	4579	11198	41.6,41.6
50	8657	6299	4344	6819	9248	5409	3101	5099	40- 50	5079	16277	60.5,60.5
60	8147	4208	1449	4892	8638	4051	1850	3781	50- 60	4786	21063	78.2,78.2
70	6087	2292	445.6	2740	7361	2316	670.6	2056	60- 70	3554	24617	91.4,91.4
80	546.3	185.0	108.8	316.4	1538	317.0	52.72	201.4	70- 80	1541	26157	97.2,97.2
90	66.43	42.19	24.63	41.23	96.00	60.47	42.30	62.00	80- 90	140.7	26298	97.7,97.7
100	86.94	57.23	35.04	51.78	96.52	71.67	55.70	77.57	90-100	63.78	26362	97.9,97.9
110	101.0	74.58	50.45	67.53	106.4	88.52	74.79	95.33	100-110	78.01	26440	98.2,98.2
120	112.0	91.56	67.42	81.41	118.0	103.8	94.12	112.6	110-120	89.29	26529	98.5,98.5
130	121.0	107.2	84.70	92.59	125.7	114.3	110.2	126.6	120-130	93.12	26622	98.9,98.9
140	135.0	122.8	102.6	106.4	139.1	125.6	122.5	137.8	130-140	90.35	26712	99.2,99.2
150	149.0	139.0	121.8	123.1	153.5	138.8	134.0	148.0	140-150	82.00	26794	99.5,99.5
160	163.2	154.1	140.3	140.3	164.8	151.7	148.0	157.6	150-160	66.93	26861	99.8,99.8
170	175.2	164.3	155.2	156.1	175.0	162.8	160.1	165.1	160-170	44.65	26906	99.9,99.9
180	177.3	167.4	161.7	164.8	177.9	167.4	161.3	164.8	170-180	15.79	26922	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**ISOCANDELA DIAGRAM**

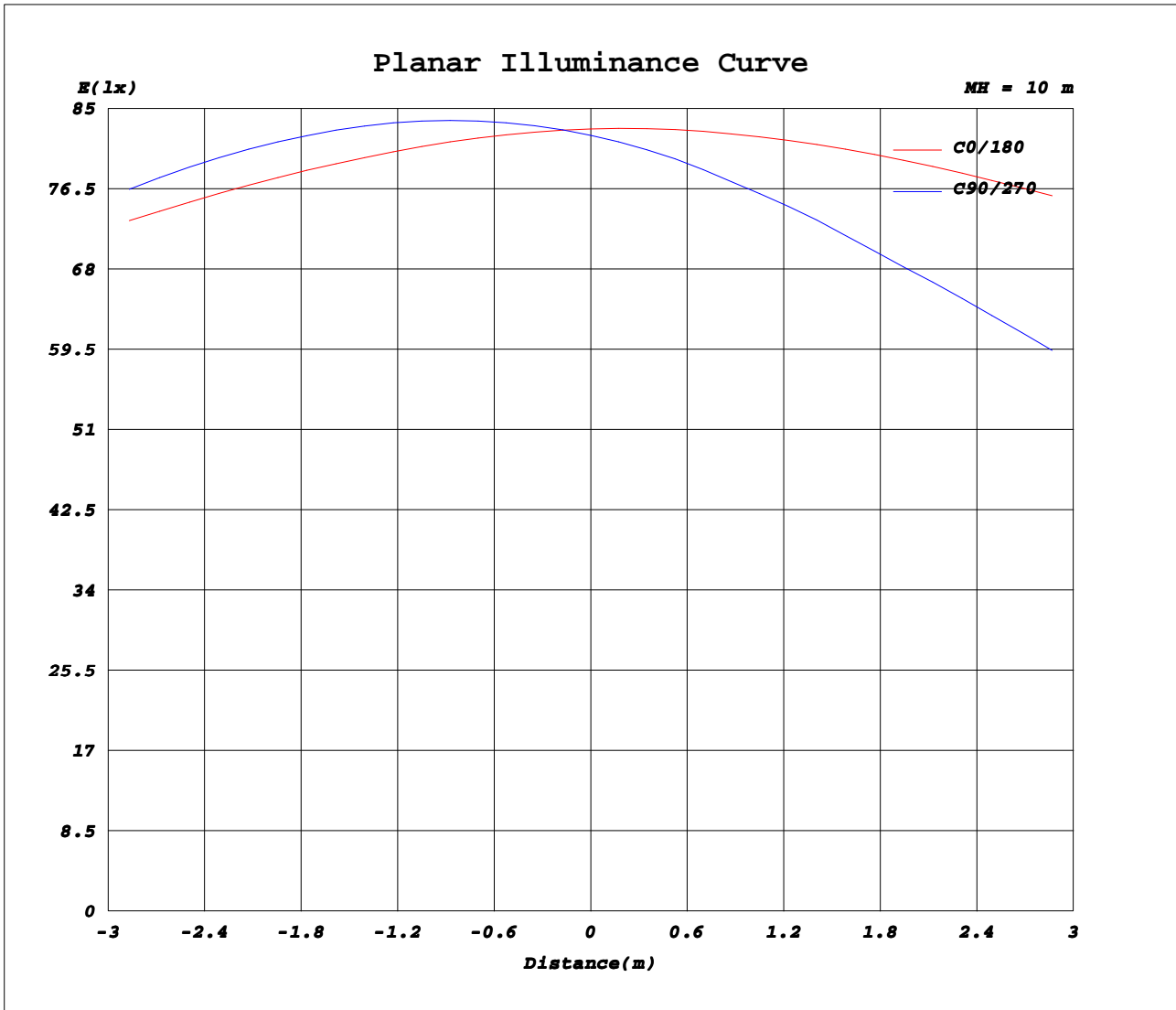
Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz		
Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**Planar Illuminance Curve**



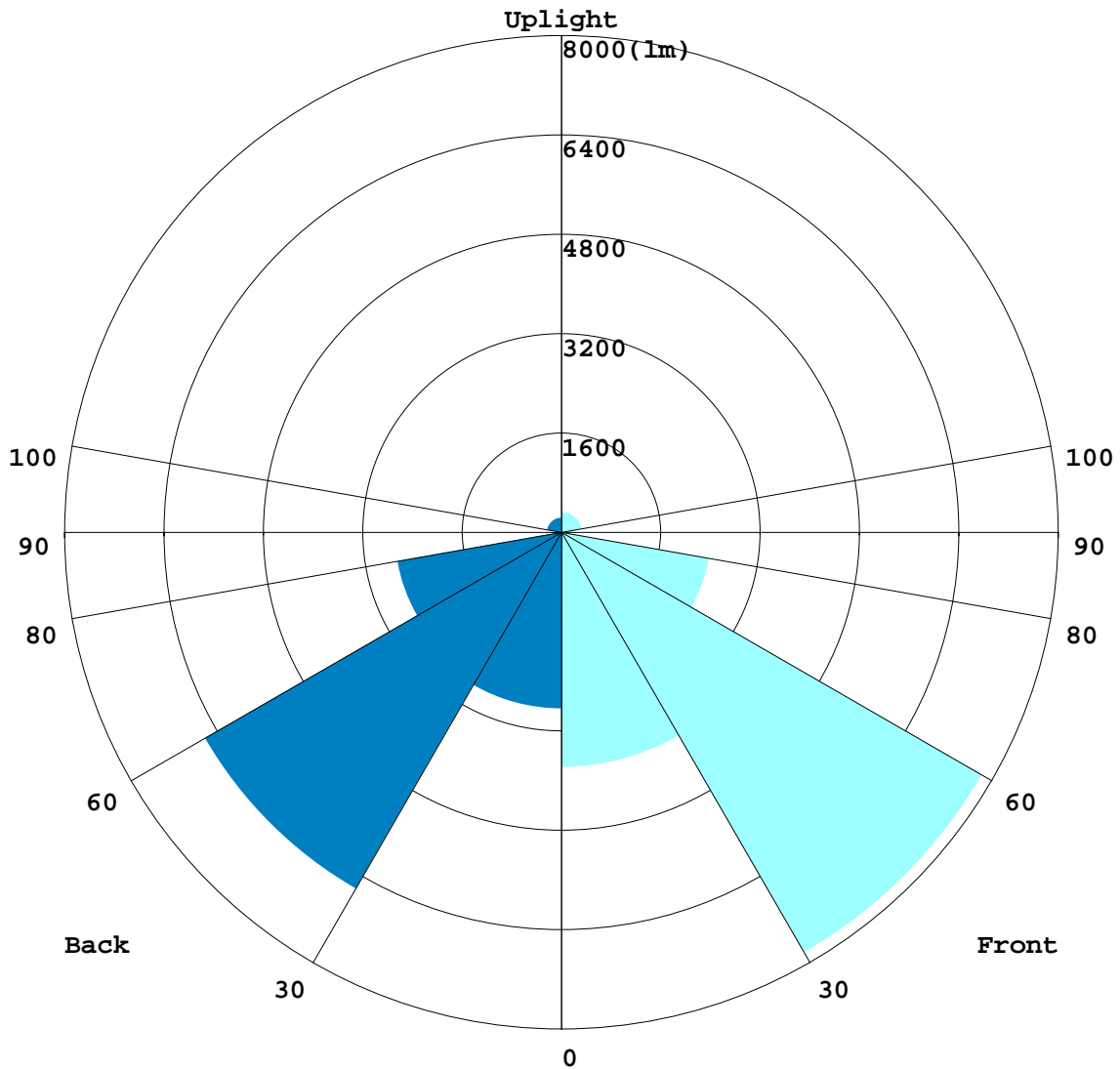
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**LCS REPORT**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz		
Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	

**LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**BUG REPORT**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3779.7	14.0
FM - Front-Medium(30-60)	7815.9	29.0
FH - Front-High(60-80)	2415	9.0
FVH - Front-Very High(80-90)	55	0.2
<b>Total Forward Light</b>	<b>14429</b>	<b>53.6</b>

BL - Back-Low(0-30)	2838.6	10.5
BM - Back-Medium(30-60)	6628.5	24.6
BH - Back-High(60-80)	2679.4	10.0
BVH - Back-Very High(80-90)	85.749	0.3
<b>Total Back Light</b>	<b>12492</b>	<b>46.4</b>

UL - Uplight-Low(90-100)	63.784	0.2
UH - Uplight-High(100-180)	560.16	2.1
<b>Total Up Light</b>	<b>623.94</b>	<b>2.3</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B4-U4-G4</b>
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	12232	260.08	12492
Street Side	14066	363.86	14429

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-04-25**

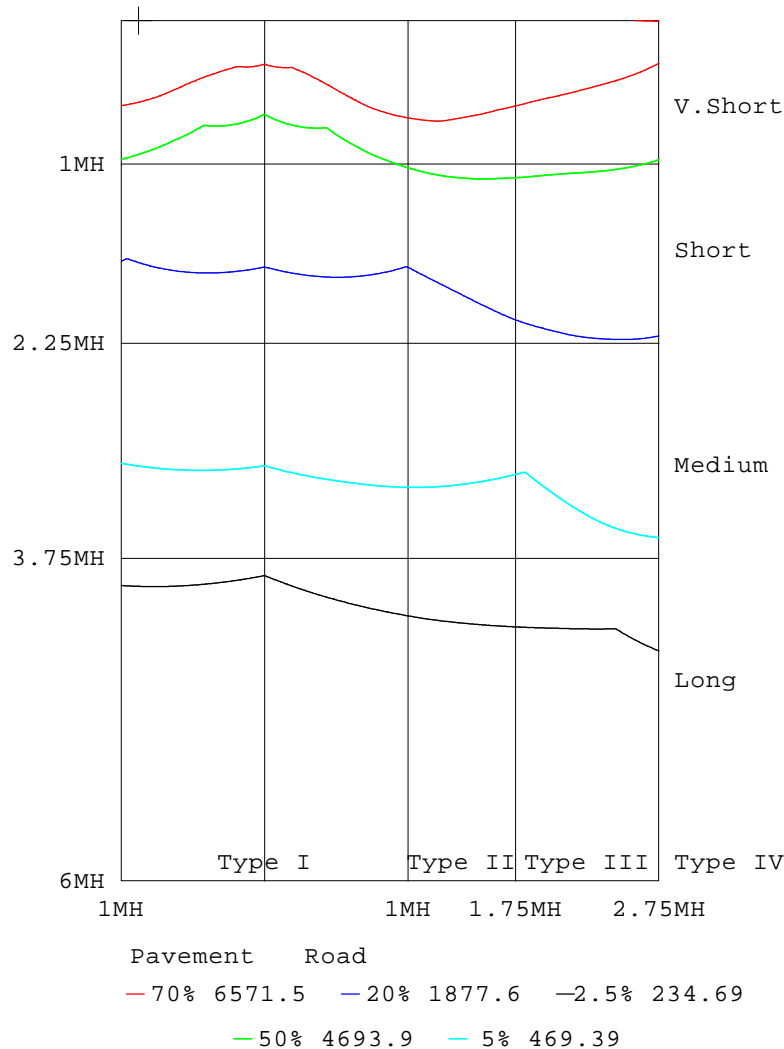
**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**



**ROAD ISOCANDELA REPORT**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz		
Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	

ROAD SURFACE ISOCANDELA DIAGRAM



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.40V I:0.9390A P:203.50W PF:0.9830 Freq:50.00Hz Lamp Flux:26921.9x1 lm		
Name: NS80-200W	Type: LED	
MFR.: Lumega Group	DIM.: 540*320*75mm	
	SUR.: 250*290mm	

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	8284	8258	8250	8216	8211	8174	8284	8258	8250	8216	8211	8174							
5	8241	8364	8448	8471	8454	8356	8328	8112	7943	7816	7866	7958							
10	8215	8444	8557	8600	8614	8529	8390	7948	7545	7320	7464	7745							
15	8227	8499	8576	8620	8696	8692	8501	7816	7104	6801	7069	7592							
20	8270	8524	8500	8531	8665	8816	8672	7735	6636	6211	6604	7464							
25	8359	8525	8334	8294	8538	8898	8879	7695	6176	5580	6142	7367							
30	8464	8499	8039	7852	8266	8942	9099	7693	5727	5000	5672	7278							
35	8573	8434	7559	7262	7809	8967	9269	7710	5248	4527	5188	7201							
40	8673	8290	6912	6440	7210	8892	9378	7668	4773	4089	4711	7114							
45	8699	7989	6048	5475	6372	8645	9359	7478	4292	3628	4199	6925							
50	8657	7483	5114	4344	5464	8175	9248	7078	3741	3101	3609	6589							
55	8485	6703	4134	3244	4475	7491	9019	6518	3077	2518	2954	6073							
60	8147	5731	2685	1449	3338	6446	8638	5719	2382	1850	2265	5298							
65	7546	5293	815	736	1077	5483	8156	4752	1589	1231	1465	4386							
70	6087	4122	463	446	556	4925	7361	3698	933	671	801	3310							
75	2777	1064	276	253	332	2576	5000	2081	439	266	346	1322							
80	546	236	134	109	174	459	1538	463	171	52.7	123	280							
85	95.5	82.8	50.3	46.7	68.6	144	232	166	62.4	38.2	56.6	101							
90	66.4	52.6	31.8	24.6	30.7	51.8	96.0	72.5	48.4	42.3	50.9	73.1							
95	77.7	61.1	37.4	28.7	34.4	54.0	89.1	74.5	54.0	48.2	57.9	81.5							
100	86.9	69.3	45.2	35.0	41.3	62.3	96.5	82.0	61.3	55.7	66.1	89.0							
105	93.6	77.7	53.7	42.5	49.3	70.0	101	88.8	70.8	64.7	76.3	96.2							
110	101	86.5	62.6	50.4	57.5	77.6	106	96.7	80.4	74.8	86.1	105							
115	107	95.0	71.6	58.9	65.8	84.4	113	104	89.6	84.7	95.7	113							
120	112	103	80.5	67.4	73.6	89.2	118	109	98.2	94.1	105	120							
125	116	110	89.4	76.0	80.9	93.0	122	114	105	103	113	127							
130	121	116	98.2	84.7	88.0	97.2	126	118	111	110	121	132							
135	128	123	107	93.5	95.0	103	132	123	116	117	127	138							
140	135	130	115	103	103	110	139	129	122	123	133	143							
145	142	138	124	112	111	118	147	136	128	128	138	148							
150	149	145	133	122	120	126	154	143	135	134	143	153							
155	156	152	141	131	129	134	160	149	141	141	149	157							
160	163	160	149	140	138	142	165	155	148	148	154	161							
165	170	165	155	149	147	151	170	161	155	155	159	164							
170	175	169	159	155	154	158	175	166	160	160	163	167							
175	177	171	163	160	160	164	177	169	162	161	164	168							
180	177	172	163	162	163	167	178	171	164	161	163	167							

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-04-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**