

IES ROAD REPORT



Light measurement results

Print date 12/18/2025

PHOTOMETRIC FILENAME : DE-LED-C22-WFL-9-4K

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] Viso LabSpion - serial: n/a sensor serial: n/a
[TESTLAB] Viso - serial: n/a sensor serial: n/a - Test lab
[MANUFAC] B-K Lighting Inc
[ISSUEDATE] 12/18/2025
[LUMINAIRE] DE-LED-C22-WFL-9-4K
[LUMCAT] N/A
[SERIALNUMBER] n/a - n/a

Measurement Conditions

Tested c-planes, qty	3
Tested gamma angles, qty	181

Tested Light Source

Luminaire	DE-LED-C22-WFL-9-4K
Item No.	
Manufacturer	B-K Lighting Inc

Main Light Measurement Results

Luminaire lumens	673 lm
Downward Total Efficiency	100%
Total Luminaire Efficiency	100%
Luminaire Efficacy Rating (LER)	32.41 lm/W
Total Luminaire Watts	20.76 W
Upward Waste Light Ratio	0%
Maximum Candela	976.2 cd
Maximum Candela Angle	180H 0V
Maximum Candela (<90 Degrees Vertical)	0 cd
Maximum Candela Angle (<90 Degrees Vertical)	180H 90V
Maximum Candela At 90 Degrees Vertical	0 cd
Maximum Candela from 80 to <90 Degrees Vertical	6.403 cd
Correlated Color Temperature, CCT	4000 K
Color Rendering Index, CRI	90.0

Distribution

IES Classification (type I,II,III,IV,V)	Type V
Longitudinal Classification (Short, Medium, Long)	Very Short
Cutoff Classification (deprecated)	Full Cutoff
BUG rating (IESNA TM-15-07)	B1 U0 G0

IESNA TM-15-07 LUMINIARE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES

Forward Light

Low (0-30°)	264.9	lm	39.36%
Medium (30-60°)	60.12	lm	8.934%
High (60-80°)	9.319	lm	1.385%
Very High (80-90°)	2.184	lm	0.3245%

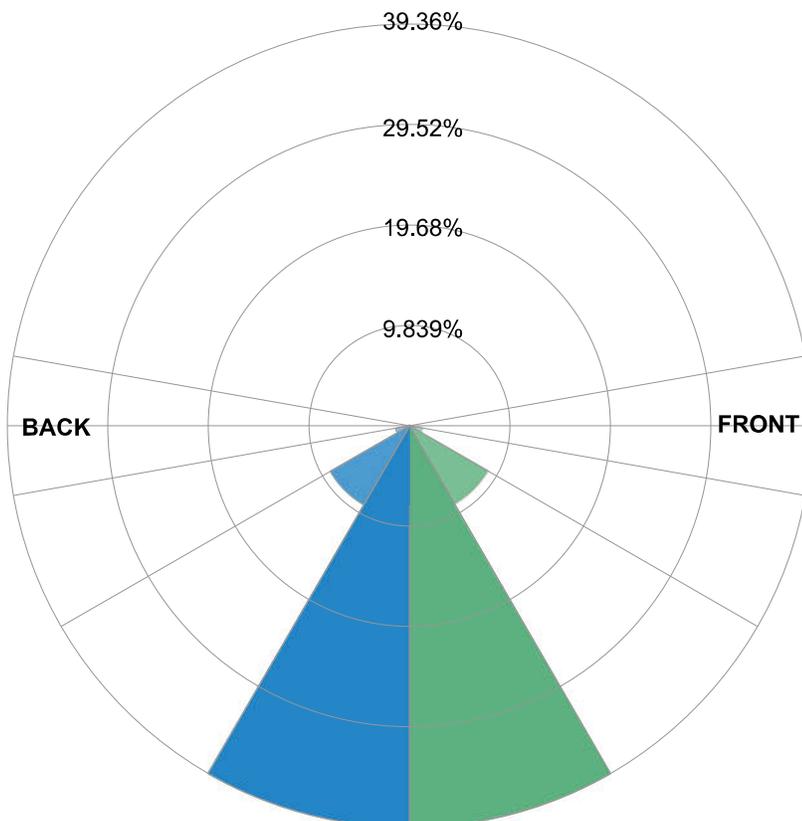
Back Light

Low (0-30°)	264.9	lm	39.36%
Medium (30-60°)	60.12	lm	8.934%
High (60-80°)	9.319	lm	1.385%
Very High (80-90°)	2.184	lm	0.3245%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	673	lm	100%

BUG RATING B1 U0 G0



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Gamma	C0	C10	C20	C30	C40	C50	C60	C70	C80
180	0	0	0	0	0	0	0	0	0
177,5	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
172,5	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
167,5	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
162,5	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
157,5	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
152,5	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
147,5	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0
142,5	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0
137,5	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
132,5	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0
127,5	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0
122,5	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
117,5	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
112,5	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
107,5	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
102,5	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
97,5	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
92,5	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
87,5	0	0	0	0	0	0	0	0	0
85	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802
82,5	0	0	0	0	0	0	0	0	0
80	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
77,5	0	0	0	0	0	0	0	0	0
75	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
72,5	0	0	0	0	0	0	0	0	0
70	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
67,5	0	0	0	0	0	0	0	0	0
65	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904
62,5	0	0	0	0	0	0	0	0	0
60	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
57,5	0	0	0	0	0	0	0	0	0
55	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11
52,5	0	0	0	0	0	0	0	0	0
50	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31
47,5	0	0	0	0	0	0	0	0	0
45	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81
42,5	0	0	0	0	0	0	0	0	0
40	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42
37,5	0	0	0	0	0	0	0	0	0
35	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
32,5	0	0	0	0	0	0	0	0	0
30	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
27,5	0	0	0	0	0	0	0	0	0
25	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
22,5	0	0	0	0	0	0	0	0	0
20	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
17,5	0	0	0	0	0	0	0	0	0
15	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
12,5	0	0	0	0	0	0	0	0	0
10	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
7,5	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2,5	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
0	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2

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Gamma	C90	C100	C110	C120	C130	C140	C150	C160	C170
180	0	0	0	0	0	0	0	0	0
177,5	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
172,5	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
167,5	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
162,5	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
157,5	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
152,5	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
147,5	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0
142,5	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0
137,5	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
132,5	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0
127,5	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0
122,5	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
117,5	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
112,5	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
107,5	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
102,5	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
97,5	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
92,5	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
87,5	0	0	0	0	0	0	0	0	0
85	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802
82,5	0	0	0	0	0	0	0	0	0
80	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
77,5	0	0	0	0	0	0	0	0	0
75	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
72,5	0	0	0	0	0	0	0	0	0
70	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
67,5	0	0	0	0	0	0	0	0	0
65	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904
62,5	0	0	0	0	0	0	0	0	0
60	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
57,5	0	0	0	0	0	0	0	0	0
55	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11
52,5	0	0	0	0	0	0	0	0	0
50	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31
47,5	0	0	0	0	0	0	0	0	0
45	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81
42,5	0	0	0	0	0	0	0	0	0
40	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42
37,5	0	0	0	0	0	0	0	0	0
35	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
32,5	0	0	0	0	0	0	0	0	0
30	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
27,5	0	0	0	0	0	0	0	0	0
25	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
22,5	0	0	0	0	0	0	0	0	0
20	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
17,5	0	0	0	0	0	0	0	0	0
15	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
12,5	0	0	0	0	0	0	0	0	0
10	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
7,5	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2,5	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
0	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2

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Gamma	C180	C190	C200	C210	C220	C230	C240	C250	C260
180	0	0	0	0	0	0	0	0	0
177,5	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
172,5	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
167,5	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
162,5	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
157,5	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
152,5	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
147,5	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0
142,5	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0
137,5	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
132,5	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0
127,5	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0
122,5	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
117,5	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
112,5	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
107,5	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
102,5	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
97,5	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
92,5	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
87,5	0	0	0	0	0	0	0	0	0
85	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802
82,5	0	0	0	0	0	0	0	0	0
80	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
77,5	0	0	0	0	0	0	0	0	0
75	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
72,5	0	0	0	0	0	0	0	0	0
70	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
67,5	0	0	0	0	0	0	0	0	0
65	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904
62,5	0	0	0	0	0	0	0	0	0
60	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
57,5	0	0	0	0	0	0	0	0	0
55	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11
52,5	0	0	0	0	0	0	0	0	0
50	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31
47,5	0	0	0	0	0	0	0	0	0
45	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81
42,5	0	0	0	0	0	0	0	0	0
40	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42
37,5	0	0	0	0	0	0	0	0	0
35	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
32,5	0	0	0	0	0	0	0	0	0
30	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
27,5	0	0	0	0	0	0	0	0	0
25	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
22,5	0	0	0	0	0	0	0	0	0
20	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
17,5	0	0	0	0	0	0	0	0	0
15	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
12,5	0	0	0	0	0	0	0	0	0
10	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
7,5	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2,5	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
0	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2

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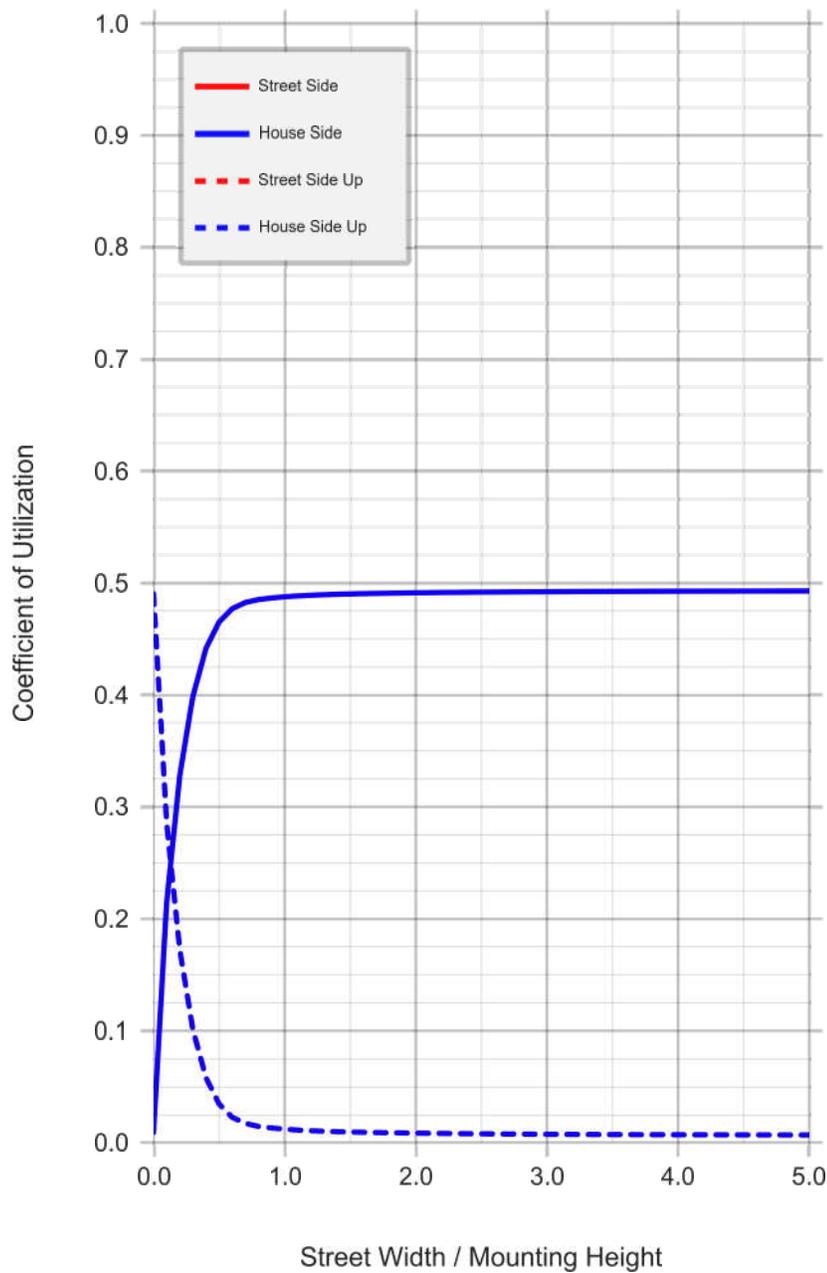
Gamma	C270	C280	C290	C300	C310	C320	C330	C340	C350
180	0	0	0	0	0	0	0	0	0
177,5	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
172,5	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
167,5	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
162,5	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
157,5	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
152,5	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
147,5	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0
142,5	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0
137,5	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
132,5	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0
127,5	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0
122,5	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
117,5	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
112,5	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0
107,5	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0
102,5	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
97,5	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0
92,5	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
87,5	0	0	0	0	0	0	0	0	0
85	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802	4.802
82,5	0	0	0	0	0	0	0	0	0
80	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403	6.403
77,5	0	0	0	0	0	0	0	0	0
75	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
72,5	0	0	0	0	0	0	0	0	0
70	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
67,5	0	0	0	0	0	0	0	0	0
65	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904	9.904
62,5	0	0	0	0	0	0	0	0	0
60	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
57,5	0	0	0	0	0	0	0	0	0
55	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11	15.11
52,5	0	0	0	0	0	0	0	0	0
50	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31
47,5	0	0	0	0	0	0	0	0	0
45	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81	29.81
42,5	0	0	0	0	0	0	0	0	0
40	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42	41.42
37,5	0	0	0	0	0	0	0	0	0
35	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5	129.5
32,5	0	0	0	0	0	0	0	0	0
30	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3	270.3
27,5	0	0	0	0	0	0	0	0	0
25	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
22,5	0	0	0	0	0	0	0	0	0
20	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8	679.8
17,5	0	0	0	0	0	0	0	0	0
15	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1
12,5	0	0	0	0	0	0	0	0	0
10	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9	904.9
7,5	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003	8.003
5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5	963.5
2,5	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
0	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2	976.2

IES ROAD REPORT



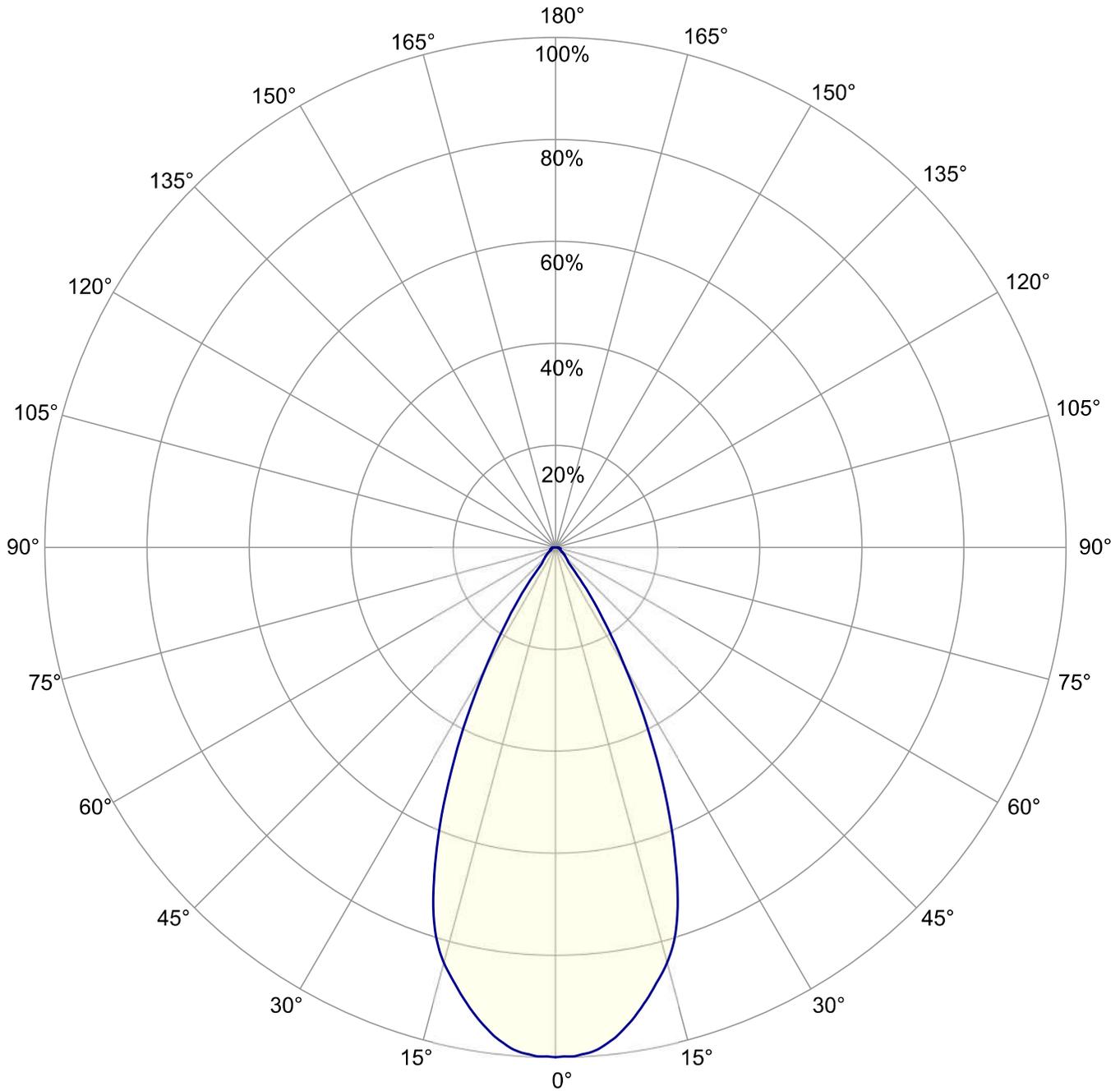
Light measurement results

Print date 12/18/2025



	Flux	Percent of lamp
Downward Street Side	336.50 lm	50.00%
Downward House Side	336.50 lm	50.00%
Downward Total	673.00 lm	100.00%
Upward Total	0.00 lm	0.00%
Total Flux	673.00 lm	100%

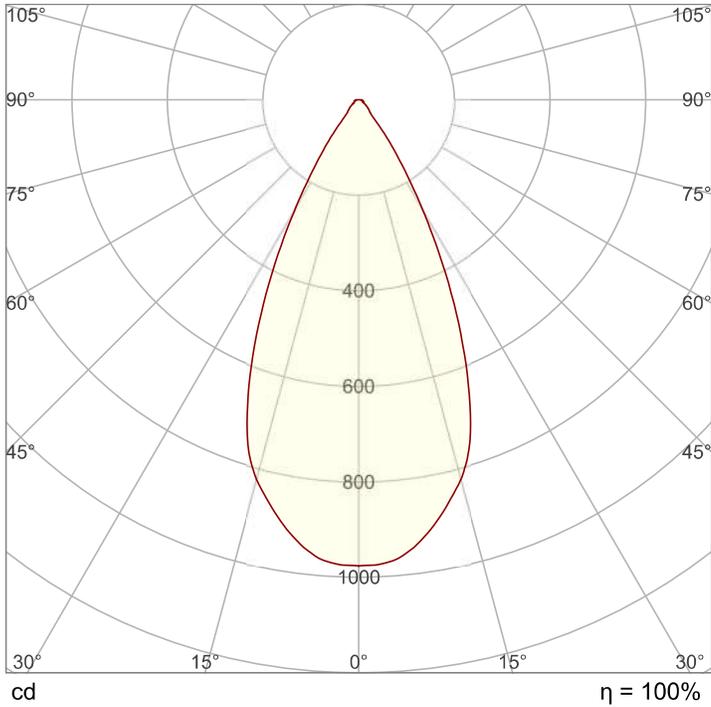
POLAR GRAPH - PEAK VALUES



Maximum intensity = 976.2 cd. Located at horizontal, vertical angles 180H 0V

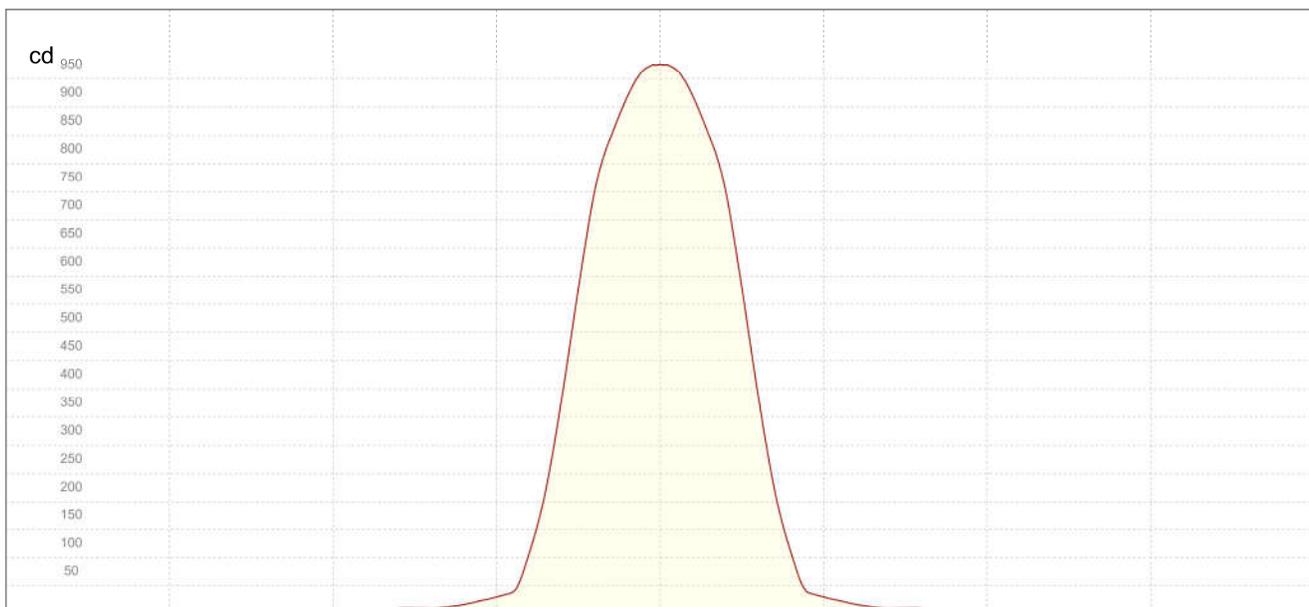
-  Peak plane: C0 - C180 (through max.intensity cd)
-  Horizontal cone through vertical angle 0V

POLAR GRAPH - MAIN PLANES



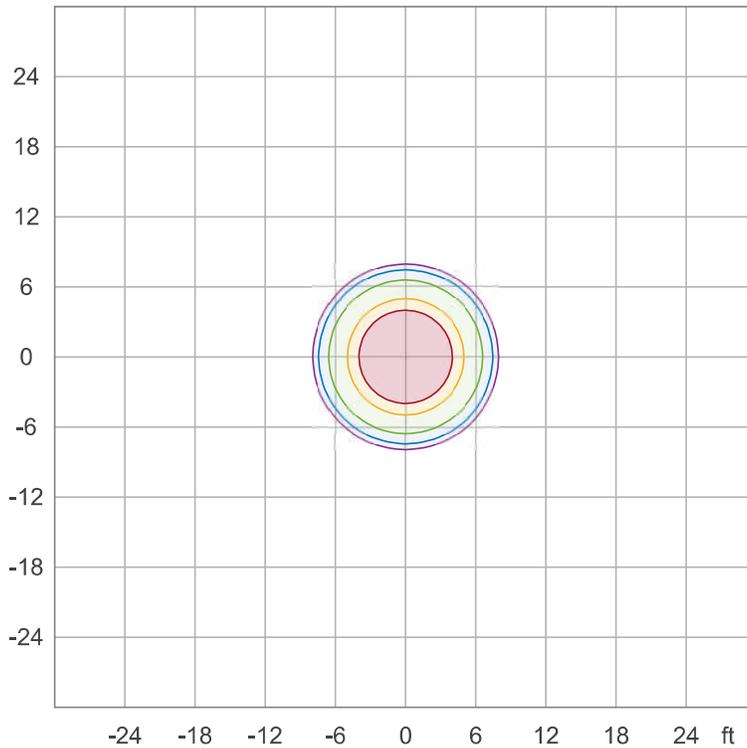
- C0 - C180
- C90 - C270

LINEAR INTENSITY DISTRIBUTION DIAGRAM



- C0 - C180
- C90 - C270
- Peak plane: C0 - C180

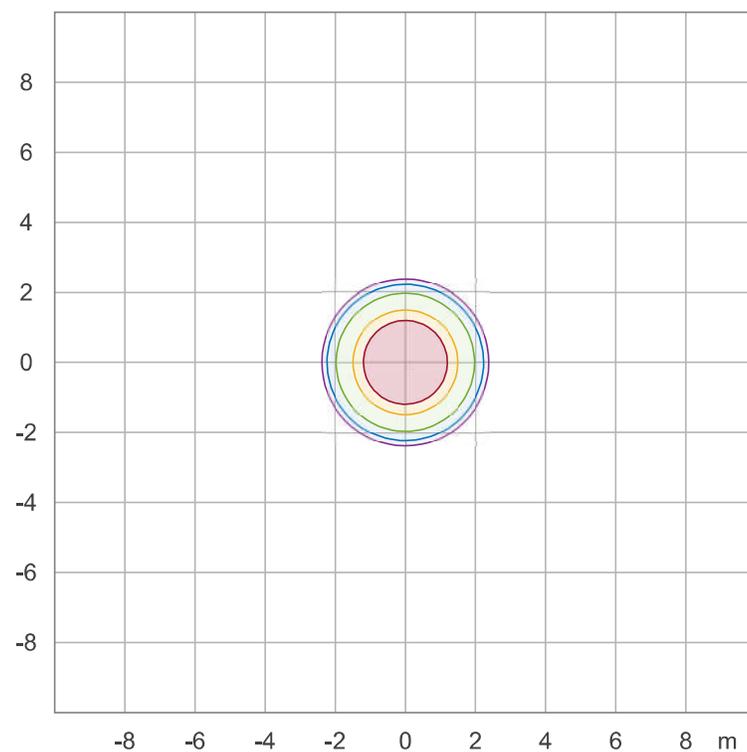
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



50.0 %	4.88 fc
30.0 %	2.93 fc
10.0 %	0.976 fc
5.0 %	0.488 fc
3.0 %	0.293 fc

Peak illuminance: 9.76 fc
 Mounting height: 10 ft
 Number of c-planes: 2

ISOLUX LINES OF HORIZONTAL ILLUMINANCE



50.0 %	54.2 lx
30.0 %	32.5 lx
10.0 %	10.8 lx
5.0 %	5.42 lx
3.0 %	3.25 lx

Peak illuminance: 108 lx
 Mounting height: 3 m
 Number of c-planes: 2