



Filename: **LIGHT005-010 MG 9W no diffuser**

Manufacturer: Lightart

Lamp: A19 9W LED Philips

Lamp Output: Total luminaire Lumens: 623.6

Max Candela: 90.9 at Horizontal: 90°, Vertical: 12.5°

Input Wattage: 8.72

Luminous Opening: Rectangle w/Luminous Sides (L: 24", W: 24", H: 24")

Test: LM-79-08

Test Lab: Orb Optonix, Inc.

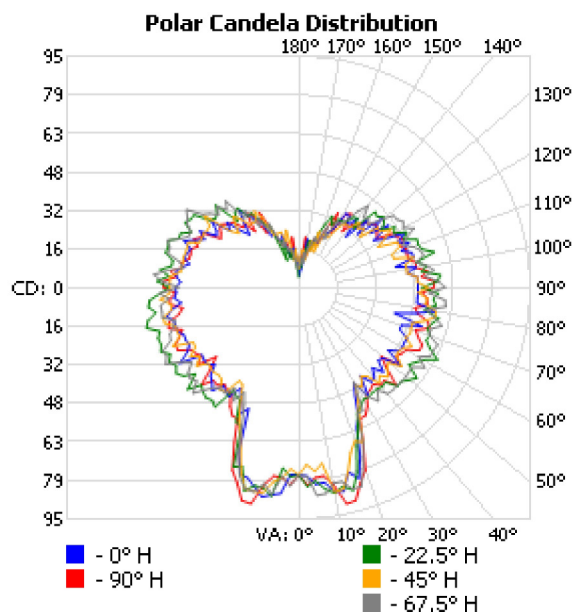
Photometry : Type C

CIE Class: General Diffuse

Cutoff Class: Noncutoff

#### Zonal Lumen Summary

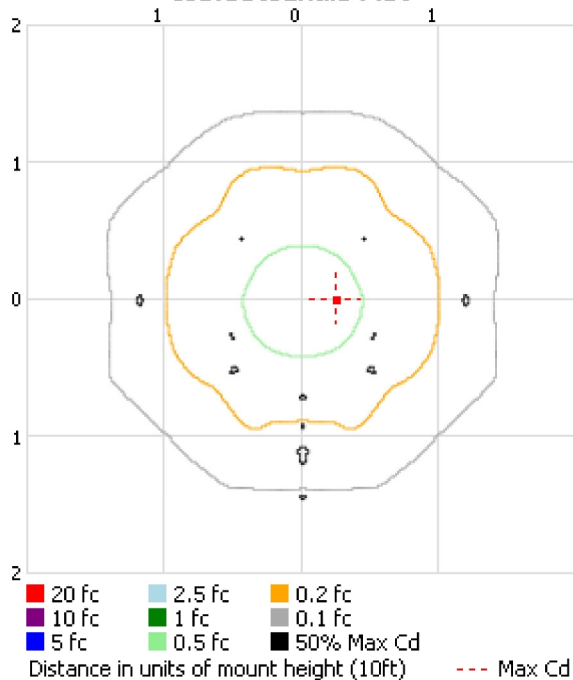
Zone	Lumens	% Luminaire
0-30	57.9	9.3%
0-40	90.3	14.5%
0-60	180.4	28.9%
60-90	173.5	27.8%
70-100	175.6	28.2%
90-120	158.3	25.4%
0-90	353.9	56.8%
90-180	269.7	43.2%
0-180	623.6	100%



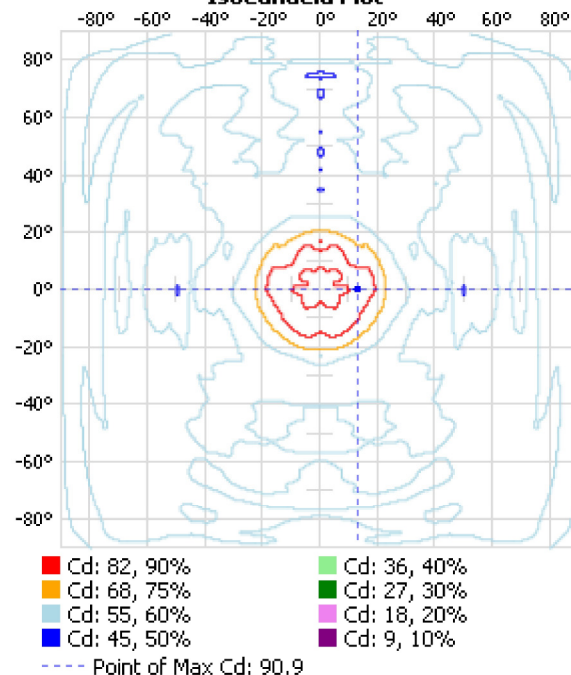
#### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	7.7	1.2%	90-100	57.5	9.2%
10-20	23.1	3.7%	100-110	53.0	8.5%
20-30	27.1	4.3%	110-120	47.8	7.7%
30-40	32.5	5.2%	120-130	40.7	6.5%
40-50	41.4	6.6%	130-140	30.5	4.9%
50-60	48.6	7.8%	140-150	21.8	3.5%
60-70	55.4	8.9%	150-160	12.0	1.9%
70-80	58.6	9.4%	160-170	5.2	0.8%
80-90	59.5	9.5%	170-180	1.2	0.2%

#### Isofootcandle Plot

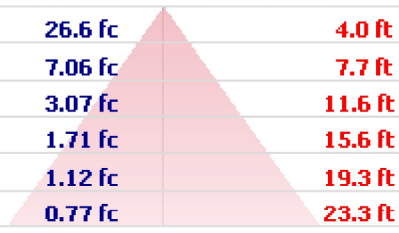


#### IsoCandela Plot



**Illuminance at a Distance**

	Center Beam fc	Beam Width
1.7ft	<b>26.6 fc</b>	<b>4.0 ft</b>
3.3ft	<b>7.06 fc</b>	<b>7.7 ft</b>
5.0ft	<b>3.07 fc</b>	<b>11.6 ft</b>
6.7ft	<b>1.71 fc</b>	<b>15.6 ft</b>
8.3ft	<b>1.12 fc</b>	<b>19.3 ft</b>
10.0ft	<b>0.77 fc</b>	<b>23.3 ft</b>



■ Horiz. Spread: 98.6°

**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.09	1.09	1.09	1.09	1.01	1.01	1.01	.57	.87	.87	.87	.74	.74	.74	.62	.62	.62	.62	.62	.62	.57
1	.95	.88	.83	.78	.87	.82	.77	.39	.70	.66	.62	.58	.55	.53	.48	.46	.44	.44	.44	.44	.38
2	.85	.75	.67	.60	.78	.69	.62	.30	.59	.53	.48	.49	.45	.41	.40	.37	.34	.34	.34	.34	.29
3	.76	.65	.56	.48	.70	.60	.52	.24	.51	.44	.39	.42	.37	.33	.34	.30	.27	.27	.27	.27	.23
4	.69	.57	.47	.40	.64	.52	.44	.20	.44	.38	.32	.37	.32	.27	.30	.26	.22	.22	.22	.22	.19
5	.63	.50	.41	.34	.58	.46	.38	.17	.39	.32	.27	.33	.27	.23	.27	.22	.19	.19	.19	.19	.16
6	.58	.45	.35	.29	.54	.41	.33	.15	.35	.28	.23	.29	.24	.20	.24	.20	.16	.16	.16	.16	.13
7	.54	.40	.31	.25	.49	.37	.29	.13	.32	.25	.20	.27	.21	.17	.22	.18	.14	.14	.14	.14	.12
8	.50	.36	.28	.22	.46	.34	.26	.11	.29	.23	.18	.24	.19	.15	.20	.16	.13	.13	.13	.13	.10
9	.46	.33	.25	.20	.43	.31	.23	.10	.27	.20	.16	.22	.17	.14	.19	.14	.11	.11	.11	.11	.09
10	.43	.30	.23	.17	.40	.28	.21	.09	.24	.19	.14	.21	.16	.12	.17	.13	.10	.10	.10	.10	.08

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST] LM-79-08  
[TESTLAB] Orb Optronix, Inc.  
[ISSUEDATE] 08-25-2017  
[MANUFAC] Lightart  
[LAMP] A19 9W LED Philips  
[\_TOTALLUMINAIRELUMENS] 623.6  
[\_ABSOLUTE LUMENS] 623.554079585627

FILE: CREATED USING ABSOLUTE PHOTOMETRY  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 73, HORIZONTAL ANGLES: 9  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: STANDARD  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.