

Photometrics Pro

Luminaire Photometric Report

Filename: TPL - Pendant Transparent Panel - 20W - IES

Manufacturer: SARIN Energy Inc.

Luminaire: SES-TPL-5000-20

Lamp Output: 1 lamp, rated Lumens/lamp: 1758.7

Max Candela: 385.6 at Horizontal: 90°, Vertical: 0°

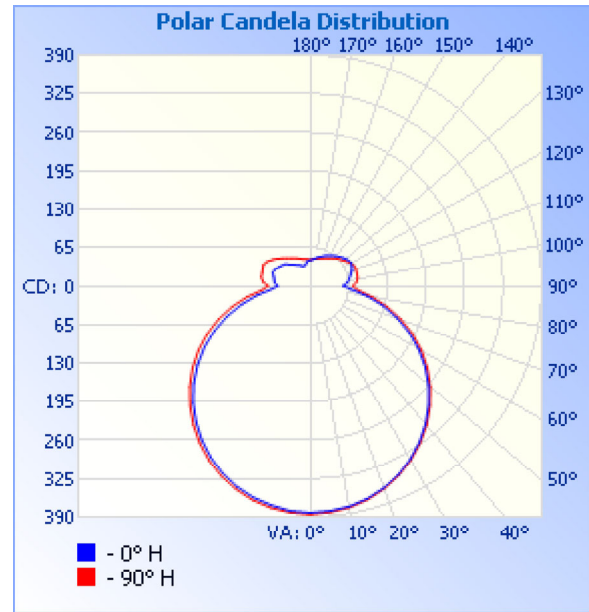
Input Wattage: 21.5932

Luminous Opening: Circular (Dia: 15.75")

Test Date: 2018-01-18

Test Lab: Benchmark lighting(Suzhou)CO.LTD.

Photometry : Type C



Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	71.7	
Max Cd, 80 to <90 Deg:	107.9	
	Lumens	% Lamp
Downward Street Side:	673.3	38.3%
Downward House Side:	665.9	37.9%
Downward Total:	1,339.2	76.1%
Upward Street Side:	219.7	12.5%
Upward House Side:	200.2	11.4%
Upward Total:	419.9	23.9%
Total Lumens:	1,759.2	100%

Flood Summary

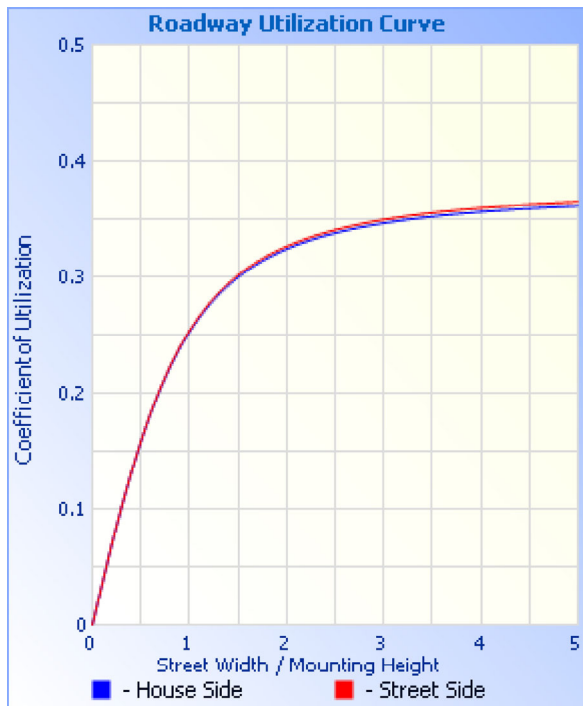
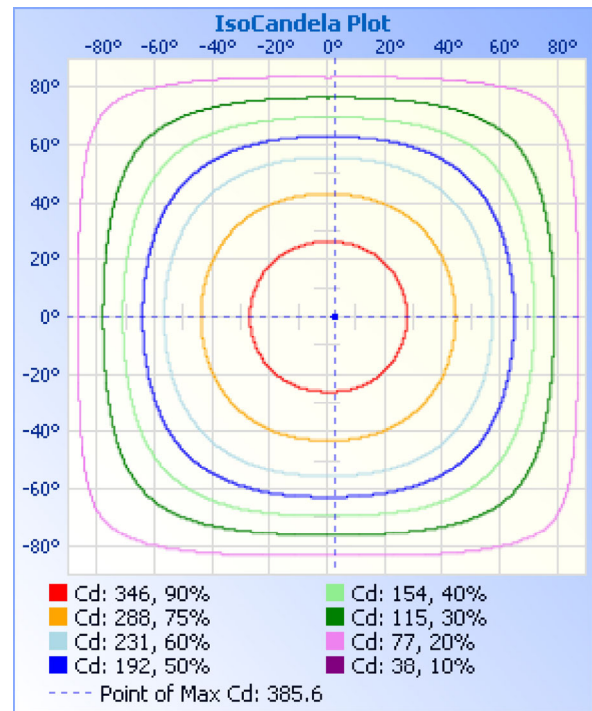
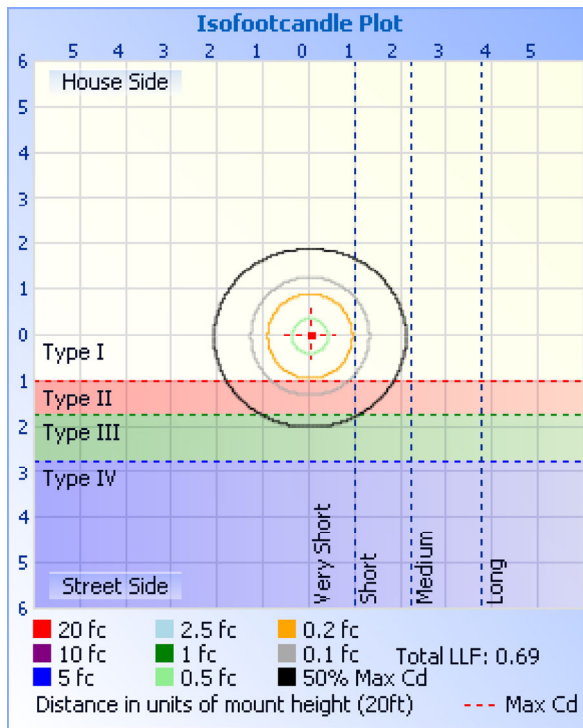
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	100%	1,758.3	n/a	247.8
Beam (50%):	57.2%	1,006.5	129.3	125.7
Total:	100%	1,758.9		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	303.1	17.2%	17.2%
0-40	504.0	28.7%	28.7%
0-60	934.5	53.1%	53.1%
60-90	404.4	23%	23%
70-100	296.6	16.9%	16.9%
90-120	231.3	13.2%	13.2%
0-90	1,338.9	76.1%	76.1%
90-180	420.0	23.9%	23.9%
0-180	1,758.9	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	36.3	2.1%	90-100	75.5	4.3%
10-20	104.9	6.0%	100-110	79.3	4.5%
20-30	161.8	9.2%	110-120	76.5	4.3%
30-40	200.9	11.4%	120-130	64.4	3.7%
40-50	218.2	12.4%	130-140	49.1	2.8%
50-60	212.2	12.1%	140-150	34.9	2%
60-70	183.4	10.4%	150-160	23.0	1.3%
70-80	135.9	7.7%	160-170	12.9	0.7%
80-90	85.1	4.8%	170-180	4.3	0.2%



Illuminance at a Distance

	Center Beam fc	Beam Width	
2.5R	61.3 fc	9.8 ft	10.6 ft
5.0R	15.3 fc	19.5 ft	21.1 ft
7.5R	6.81 fc	29.3 ft	31.7 ft
10.0R	3.83 fc	39.0 ft	42.3 ft
12.5R	2.45 fc	48.8 ft	52.8 ft
15.0R	1.70 fc	58.5 ft	63.4 ft

■ Vert. Spread: 125.7°
 ■ Horiz. Spread: 129.3°

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	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.13	1.13	1.13	1.13	1.08	1.08	1.08	.76	.98	.98	.98	.89	.89	.89	.80	.80	.80	.76			
1	1.02	.96	.91	.87	.96	.92	.87	.61	.83	.79	.76	.75	.72	.70	.68	.65	.64	.60			
2	.92	.83	.75	.69	.87	.79	.72	.50	.71	.66	.61	.64	.60	.57	.58	.55	.52	.48			
3	.83	.72	.63	.57	.78	.69	.61	.41	.62	.56	.51	.56	.51	.47	.51	.47	.43	.40			

4	.76	.63	.54	.47	.71	.60	.52	.35	.55	.48	.43	.50	.44	.39	.45	.40	.36	.33
5	.69	.56	.47	.40	.65	.54	.45	.30	.49	.42	.36	.44	.38	.34	.40	.35	.31	.29
6	.64	.50	.41	.35	.60	.48	.40	.26	.44	.37	.32	.40	.34	.29	.36	.31	.27	.25
7	.59	.45	.37	.30	.56	.43	.35	.23	.40	.33	.28	.36	.30	.26	.33	.28	.24	.22
8	.55	.41	.33	.27	.52	.40	.32	.21	.36	.29	.25	.33	.27	.23	.30	.25	.21	.19
9	.51	.38	.30	.24	.48	.36	.29	.19	.33	.27	.22	.30	.25	.21	.28	.23	.19	.17
10	.48	.35	.27	.22	.45	.33	.26	.17	.31	.24	.20	.28	.23	.19	.26	.21	.17	.16

Candela Table - Type C

	0	90	180	270	360
0	383	386	383	386	383
5	381	383	381	384	381
10	378	380	376	380	378
15	371	373	369	374	371
20	362	364	360	365	362
25	351	352	348	353	351
30	337	339	334	339	337
35	321	323	317	324	321
40	302	305	299	306	302
45	282	285	278	286	282
50	260	264	256	265	260
55	236	241	231	242	236
60	210	216	205	217	210
65	183	190	177	191	183
70	155	162	148	164	155
75	126	134	119	136	126
80	97	106	91	108	97
85	70	81	65	82	70
90	55	72	54	71	55
95	63	79	60	80	63
100	67	81	61	83	67
105	70	81	64	84	70
110	75	82	67	85	75
115	78	81	65	86	78
120	79	78	62	83	79
125	77	73	59	78	77
130	74	69	57	72	74
135	70	65	52	66	70
140	66	61	47	61	66
145	63	57	43	57	63
150	60	55	41	54	60
155	56	52	38	52	56
160	53	50	36	49	53
165	50	48	36	47	50
170	47	46	38	46	47
175	45	46	43	46	45
180	44	44	44	44	44

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTDATE] 2018-01-18
[TESTLAB] Benchmark lighting(Suzhou)CO.LTD.
[ISSUE DATE] 2018-01-29 14:18:14
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-TPL-5000-20
[_TOTALLUMINAIRELUMENS] 1758.9
[_LAMPPOSITION] 0,0
[OTHER] EVERFINE GO-2000B_V1 SYSTEM
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 5
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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