

Photometrics Pro

Luminaire Photometric Report

Filename: TR14 - 1x4 Troffer - 4000K - 36W - IES

Manufacturer: SARIN Energy Solutions

Lamp Output: 1 lamp, rated Lumens/lamp: 4355

Max Candela: 1,573.9 at Horizontal: 0°, Vertical: 0°

Input Wattage: 34.47

Luminous Opening: Rectangle (L: 47.24", W: 22.05")

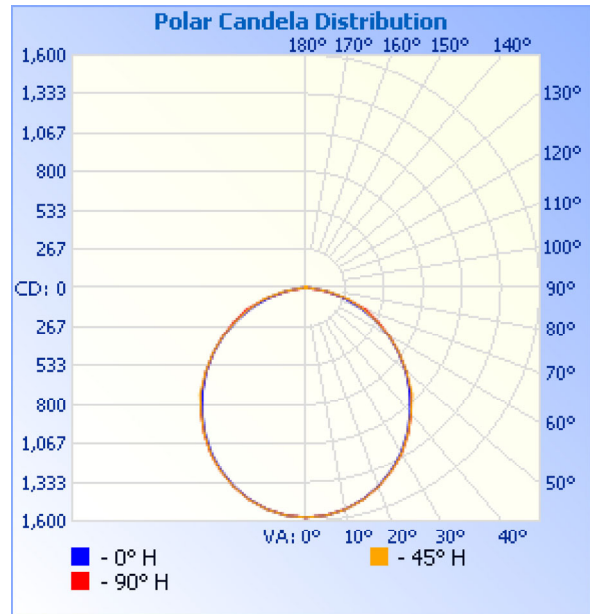
Test: LCZP20040200

Test Date: 2020/7/25

Test Lab: LCTECH 200604111003

Photometry : Type C

Nema Type: 7 X 7

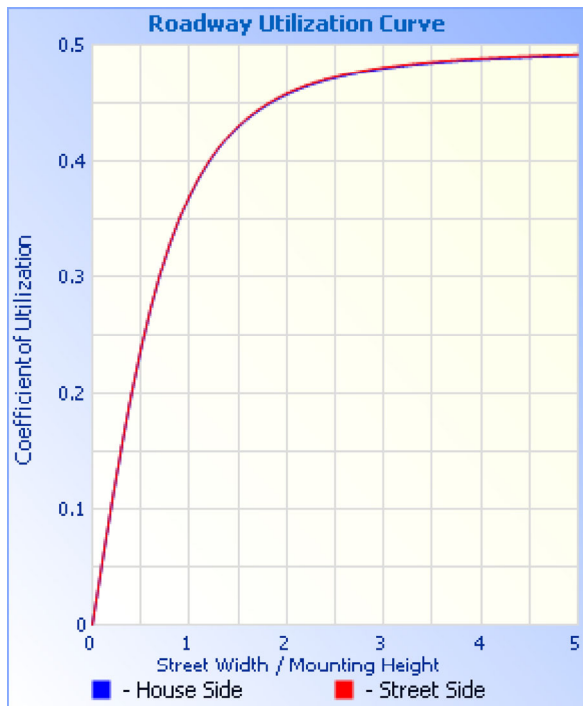
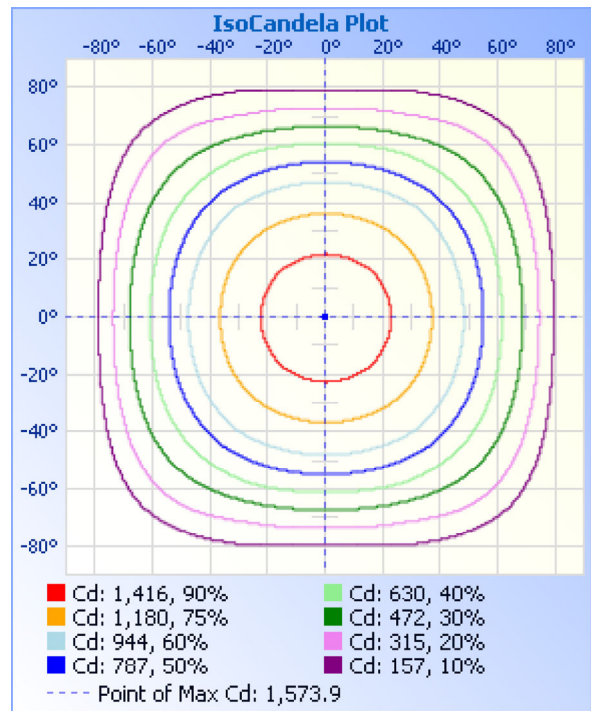
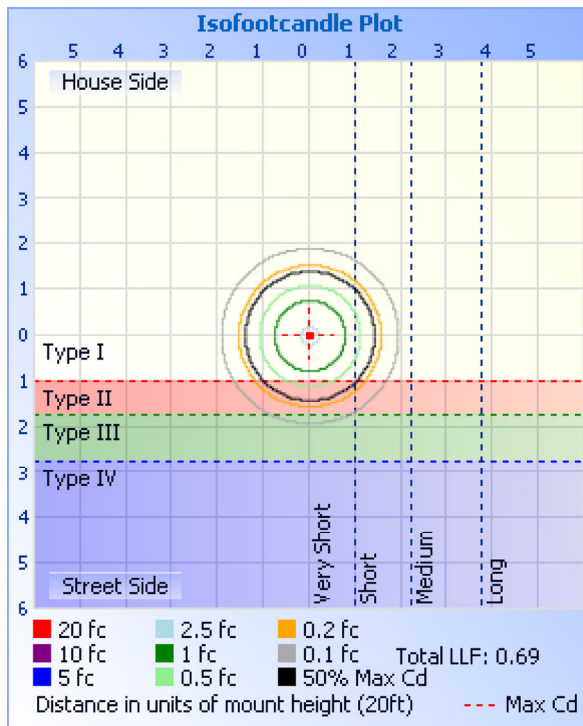


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	10.5	
Max Cd, 80 to <90 Deg:	172.9	
	Lumens	% Lamp
Downward Street Side:	2,165.6	49.7%
Downward House Side:	2,165.6	49.7%
Downward Total:	4,331.2	99.5%
Upward Street Side:	10.2	0.2%
Upward House Side:	10.2	0.2%
Upward Total:	20.4	0.5%
Total Lumens:	4,351.6	99.9%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.9%	4,265.7	158.3	159
Beam (50%):	70.8%	3,082.7	109.1	108.9
Total:	99.9%	4,349.5		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	1,207.6	27.7%	27.8%
0-40	1,966.1	45.1%	45.2%
0-60	3,438.4	79%	79%
60-90	890.9	20.5%	20.5%
70-100	367.2	8.4%	8.4%
90-120	7.8	0.2%	0.2%
0-90	4,329.3	99.4%	99.5%
90-180	20.4	0.5%	0.5%
0-180	4,349.7	99.9%	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	148.5	3.4%	90-100	3.2	0.1%
10-20	423.2	9.7%	100-110	2.3	0.1%
20-30	635.9	14.6%	110-120	2.3	0.1%
30-40	758.5	17.4%	120-130	2.5	0.1%
40-50	778.0	17.9%	130-140	2.4	0.1%
50-60	694.2	16.0%	140-150	2.6	0.1%
60-70	526.8	12.1%	150-160	2.5	0.1%
70-80	300.1	6.9%	160-170	1.9	0%
80-90	63.9	1.5%	170-180	0.7	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
2.0R	393 fc	5.6 ft	5.6 ft
4.0R	98.4 fc	11.2 ft	11.2 ft
6.0R	43.7 fc	16.8 ft	16.9 ft
8.0R	24.6 fc	22.4 ft	22.5 ft
10.0R	15.7 fc	28.0 ft	28.1 ft
12.0R	10.9 fc	33.6 ft	33.7 ft

■ Vert. Spread: 108.9°
 ■ Horiz. Spread: 109.1°

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	0	50	30	20	0	50	30	20	0	0
RCC: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99	
1	1.09	1.04	1.00	.96	1.06	1.02	.98	.84	.97	.94	.91	.93	.91	.88	.90	.88	.86	.86	.86	.84	
2	.99	.91	.84	.78	.96	.89	.82	.71	.85	.80	.75	.82	.77	.74	.79	.75	.72	.72	.72	.70	
3	.90	.80	.71	.65	.88	.78	.70	.60	.75	.68	.63	.72	.67	.62	.69	.65	.61	.61	.61	.59	

4	.82	.71	.62	.55	.80	.69	.61	.52	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.47	.58	.51	.46	.56	.50	.45	.43
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38
7	.65	.51	.43	.37	.63	.51	.42	.35	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8	.60	.47	.38	.33	.59	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30
9	.57	.43	.35	.29	.55	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10	.53	.40	.32	.27	.52	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24

Candela Table - Type C

	0	15	30	45	60	75	90
0	1574	1574	1574	1574	1574	1574	1574
5	1567	1565	1566	1567	1565	1566	1565
10	1542	1541	1541	1543	1542	1542	1542
15	1500	1500	1501	1504	1503	1503	1503
20	1446	1446	1446	1451	1450	1450	1450
25	1377	1377	1378	1384	1383	1385	1384
30	1299	1298	1298	1306	1316	1306	1307
35	1208	1208	1210	1216	1217	1217	1218
40	1109	1111	1111	1119	1118	1119	1120
45	1003	1004	1006	1027	1011	1011	1012
50	892	893	893	899	896	897	896
55	774	776	775	779	777	780	776
60	650	652	666	654	655	659	657
65	521	524	524	529	533	542	545
70	391	394	398	409	423	433	439
75	265	282	278	300	299	292	287
80	146	153	173	165	148	135	130
85	53	61	49	38	30	25	12
90	10	4	4	4	4	3	3
95	3	3	3	2	2	3	2
100	2	2	2	2	2	2	3
105	2	2	2	2	2	2	2
110	2	2	2	2	2	2	2
115	3	2	2	2	2	2	2
120	3	3	2	2	2	2	2
125	3	3	3	3	3	3	3
130	3	3	3	3	3	3	3
135	4	4	3	3	3	3	3
140	4	4	4	3	3	3	3
145	4	4	4	4	4	4	4
150	5	5	5	5	5	5	4
155	5	5	5	6	6	6	5
160	6	7	6	6	6	6	6
165	7	7	7	7	7	7	7
170	7	8	7	7	7	7	7
175	8	8	8	8	8	8	8
180	4	4	4	4	4	4	4

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LCZP20040200
[TESTDATE] 2020/7/25
[TESTLAB] LCTECH 200604111003
[ISSUE DATE] 2020/7/25
[MANUFAC] SARIN Energy Solutions
[_TOTALLUMINAIRELUMENS] 4349.7
[_LUMELE] 120.04 0.289 34.47 0.994
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 7
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.