

# Indoor Photometric Report

## IES Header Data

<b>ISSUE DATE</b>	
<b>MANUFAC</b>	
<b>TEST</b>	1
<b>TEST LAB</b>	Photopia for SOLIDWORKS 2022.0.8.11443 see: www.ltioptics.com/ies
<b>TEST DATE</b>	Monday, January 24, 2022 11:44:59 AM
<b>LUMINAIRE</b>	Spero Pendant, 06-310-W-27
<b>LAMP</b>	50MM DIAMETER LED & LENS
<b>LAMPCAT</b>	LEDLENS50MM

## Input

<b>Number of Lamps</b>	1
<b>Luminous flux per Lamp</b>	520 lm
<b>Total Input Luminous flux</b>	520 lm
<b>Input Watts</b>	7.22 W

## Output

<b>Total Output Luminous flux</b>	427.14 lm
<b>Efficiency</b>	82.14 %
<b>Efficacy</b>	59.16 lm/W

## Luminous Dimensions

<b>0° - 180° Size</b>	0.24 ft
<b>90° - 270° Size</b>	0.24 ft
<b>Height</b>	0 ft

**Photometry Information**

Distribution	Direct
Photometry Type	C

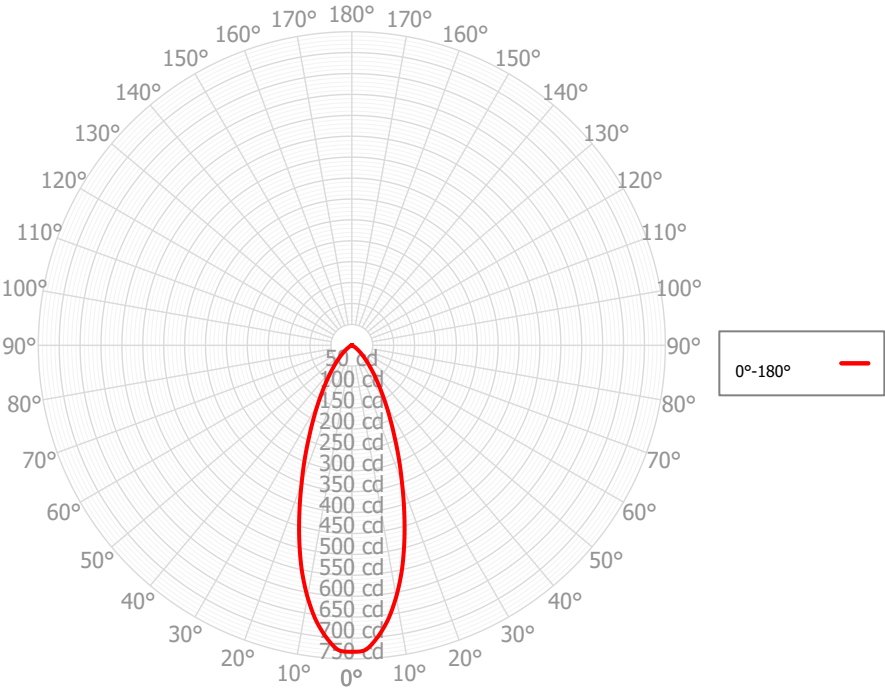
**Spacing Criterion**

Two luminaires, plane 0°	0.62
Two luminaires, plane 90°	0.62
Four luminaires	0.65

**Full Beam Angle**

0° - 180°	38.83°
90° - 270°	38.83°

**Candela Polar Plot**



## **Candela Distribution**

0.00°	
0.00°	733.05
2.50°	729.71
5.00°	701.57
7.50°	662.31
10.00°	611.15
12.50°	552.27
15.00°	485.34
17.50°	416.68
20.00°	351.15
22.50°	294.14
25.00°	241.86
27.50°	198.76
30.00°	162.43
32.50°	131.67
35.00°	106.36
37.50°	85.91
40.00°	68.52
42.50°	54.90
45.00°	43.07
47.50°	33.60
50.00°	25.87
52.50°	19.53
55.00°	14.26
57.50°	10.06
60.00°	6.70
62.50°	4.13
65.00°	2.23
67.50°	0.94
70.00°	0.40
72.50°	0.38
75.00°	0.35
77.50°	0.31
80.00°	0.25
82.50°	0.19
85.00°	0.14
87.50°	0.07
90.00°	0.02

## Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 10°	64.83	15.18%
10° - 20°	132.56	31.03%
20° - 30°	111.63	26.13%
30° - 40°	67.62	15.83%
40° - 50°	34.06	7.97%
50° - 60°	13.29	3.11%
60° - 70°	2.64	0.62%
70° - 80°	0.36	0.08%
80° - 90°	0.15	0.03%
90° - 100°	0.00	0.00%
100° - 110°	0.00	0.00%
110° - 120°	0.00	0.00%
120° - 130°	0.00	0.00%
130° - 140°	0.00	0.00%
140° - 150°	0.00	0.00%
150° - 160°	0.00	0.00%
160° - 170°	0.00	0.00%
170° - 180°	0.00	0.00%
0° - 90°	427.14	100.00%
90° - 180°	0.00	0.00%
0° - 180°	427.14	100.00%

## Indoor CU Table

Values are lumens delivered to the workplane from a single luminaire

	<b>pfc</b>	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	<b>pcc</b>	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	<b>pw</b>	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%
	<b>0</b>	508	508	508	508	497	497	497	497	475	475	475	454	454	454	436	436	436	427
	<b>1</b>	485	474	463	454	475	464	455	447	447	440	433	431	425	420	417	412	408	404
	<b>2</b>	462	441	424	410	452	434	418	405	420	407	397	407	397	388	396	387	380	380
	<b>3</b>	439	412	391	375	431	406	387	372	395	379	366	385	371	360	375	364	354	357
	<b>4</b>	418	386	363	345	410	381	360	343	372	354	339	364	348	335	356	342	331	336
<b>RCR</b>	<b>5</b>	397	363	338	320	391	359	336	319	351	331	316	344	327	313	337	323	311	317
	<b>6</b>	379	342	317	299	372	338	315	298	332	311	296	326	308	294	320	304	292	299
	<b>7</b>	361	323	298	280	356	320	296	279	314	293	278	309	291	277	305	288	275	283
	<b>8</b>	345	306	281	264	340	303	280	263	299	277	262	294	275	261	290	273	260	269
	<b>9</b>	330	290	266	249	325	288	265	249	284	263	248	280	261	247	277	259	246	255
	<b>10</b>	316	276	252	236	312	274	251	236	271	250	235	268	248	235	265	247	234	243

20.4 fc

11.5 fc

7.3 fc

5.1 fc

3.7 fc

2.9 fc

Ceiling reflectance		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall reflectance		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Plane reflectance		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
2H	2H	10.4	11.4	10.8	11.7	12.1	10.4	11.4	10.8	11.7	12.1
	3H	10.2	11.2	10.6	11.5	11.9	10.2	11.2	10.6	11.5	11.9
	4H	10.2	11.0	10.6	11.4	11.7	10.2	11.0	10.6	11.4	11.7
	6H	10.1	10.8	10.5	11.2	11.6	10.1	10.8	10.5	11.2	11.6
	8H	10.0	10.7	10.5	11.1	11.5	10.0	10.7	10.5	11.1	11.5
	12H	10.0	10.7	10.4	11.0	11.5	10.0	10.7	10.4	11.0	11.5
4H	2H	10.2	11.1	10.6	11.4	11.8	10.2	11.1	10.6	11.4	11.8
	3H	10.1	10.7	10.5	11.1	11.5	10.1	10.7	10.5	11.1	11.5
	4H	10.0	10.6	10.4	11.0	11.4	10.0	10.6	10.4	11.0	11.4
	6H	9.9	10.4	10.3	10.8	11.3	9.9	10.4	10.3	10.8	11.3
	8H	9.8	10.3	10.3	10.7	11.2	9.8	10.3	10.3	10.7	11.2
	12H	9.8	10.2	10.2	10.7	11.1	9.8	10.2	10.2	10.7	11.1
8H	4H	9.8	10.3	10.3	10.7	11.2	9.8	10.3	10.3	10.7	11.2
	6H	9.7	10.1	10.2	10.6	11.1	9.7	10.1	10.2	10.6	11.1
	8H	9.6	10.0	10.2	10.5	11.0	9.6	10.0	10.2	10.5	11.0
	12H	9.6	9.9	10.1	10.4	11.0	9.6	9.9	10.1	10.4	11.0
12H	4H	9.7	10.1	10.2	10.6	11.1	9.7	10.1	10.2	10.6	11.1
	6H	9.6	10.0	10.2	10.4	11.0	9.6	10.0	10.2	10.4	11.0
	8H	9.6	9.9	10.1	10.4	11.0	9.6	9.9	10.1	10.4	11.0

Corrected UGR values based on total output energy  
SHR = 1.0

	0.00°	45.00°	90.00°
0.00°	137945	137945	137945
45.00°	11462	11462	11462
55.00°	4679	4679	4679
65.00°	992	992	992
75.00°	253	253	253
85.00°	292	292	292