

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : GP---1014LEDXT-20LXXKE1.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.0 see: www.ltiopics.com/ies

[ISSUEDATE]

[TESTDATE] Oct 05 2015

[UPDATE] Nov 17 2016

[TEST] SP-00393\_12\_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] GP---1014LEDXT-20L-xxK-E1

[LUMINAIRE] Nominal 10" diam. Molded White Glass, Pendant

[OTHER] Open aperture, fully regressed open LED

[LAMP] N/A Min. 83 CRI

[LAMPCAT] N/A

[OTHER] This data applicable to: GPEXT1014LEDXT-series and GP1014LEDXT-series

[OTHER] Total Luminaire Watts is approximate

[OTHER] Xicato LED lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1826
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.93 ft (Diameter)
Luminous Width (90-270)	0.93 ft (Diameter)
Luminous Height	0.79 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1160	1155	1186
55	952	936	962
65	988	979	974
75	1045	1055	1042
85	1143	1165	1159

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1672.337	1672.337	1672.337	1672.337	1672.337
5	1539.450	1541.590	1530.503	1537.464	1533.703
10	1244.376	1238.642	1227.868	1225.595	1229.315
15	984.389	979.929	985.196	984.016	989.309
20	780.266	782.852	778.026	781.539	778.612
25	746.531	744.764	747.804	747.297	748.251
30	321.003	319.449	320.289	321.909	323.570
35	135.000	134.593	137.347	136.087	136.487
40	127.466	125.473	126.206	125.853	125.573
45	107.119	106.632	106.672	105.339	109.532
50	88.251	87.131	88.051	87.804	88.018
55	87.291	85.838	85.764	86.464	88.151
60	85.898	85.411	86.831	86.871	86.371
65	87.071	87.551	86.324	86.484	85.851
70	85.358	85.451	86.531	84.644	85.298
75	85.678	87.104	86.464	85.358	85.451
80	86.091	85.624	86.271	86.458	85.871
85	83.764	84.904	85.398	86.091	84.958
90	84.571	87.384	85.684	86.231	86.184
95	90.558	90.885	90.265	89.251	91.258
100	93.998	93.798	93.265	94.938	93.045
105	96.038	97.752	97.372	96.925	97.345
110	98.425	100.112	97.785	97.645	98.765
115	100.125	99.638	99.872	100.165	99.558
120	98.232	98.945	98.872	99.625	98.105
125	98.012	99.738	98.518	98.318	98.378
130	96.411	98.472	97.778	95.731	95.338
135	94.591	96.231	94.211	96.058	94.451
140	91.738	90.905	90.391	92.851	90.278
145	85.998	85.778	90.238	89.784	86.551
150	81.404	81.431	79.897	82.564	80.577
155	76.344	78.524	79.024	73.937	75.644
160	68.743	71.384	70.590	70.644	72.450
165	65.217	67.503	65.097	65.970	65.430
170	58.816	59.003	58.103	60.310	64.137
175	55.769	60.843	60.363	58.896	56.756
180	63.690	63.690	63.690	63.690	63.690

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	414.29	N.A.	22.70
0-30	709.60	N.A.	38.90
0-40	820.60	N.A.	44.90
0-60	980.81	N.A.	53.70
0-80	1157.41	N.A.	63.40
0-90	1250.87	N.A.	68.50
10-90	1113.46	N.A.	61.00
20-40	406.30	N.A.	22.20
20-50	488.71	N.A.	26.80
40-70	245.88	N.A.	13.50
60-80	176.60	N.A.	9.70
70-80	90.93	N.A.	5.00
80-90	93.46	N.A.	5.10
90-110	200.66	N.A.	11.00
90-120	299.23	N.A.	16.40
90-130	387.44	N.A.	21.20
90-150	515.66	N.A.	28.20
90-180	575.60	N.A.	31.50
110-180	374.94	N.A.	20.50
0-180	1826.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	137.41
10-20	276.88
20-30	295.31
30-40	110.99
40-50	82.40
50-60	77.82
60-70	85.66
70-80	90.93
80-90	93.46
90-100	98.38
100-110	102.28
110-120	98.56
120-130	88.22
130-140	73.38
140-150	54.84
150-160	35.49
160-170	18.73
170-180	5.72

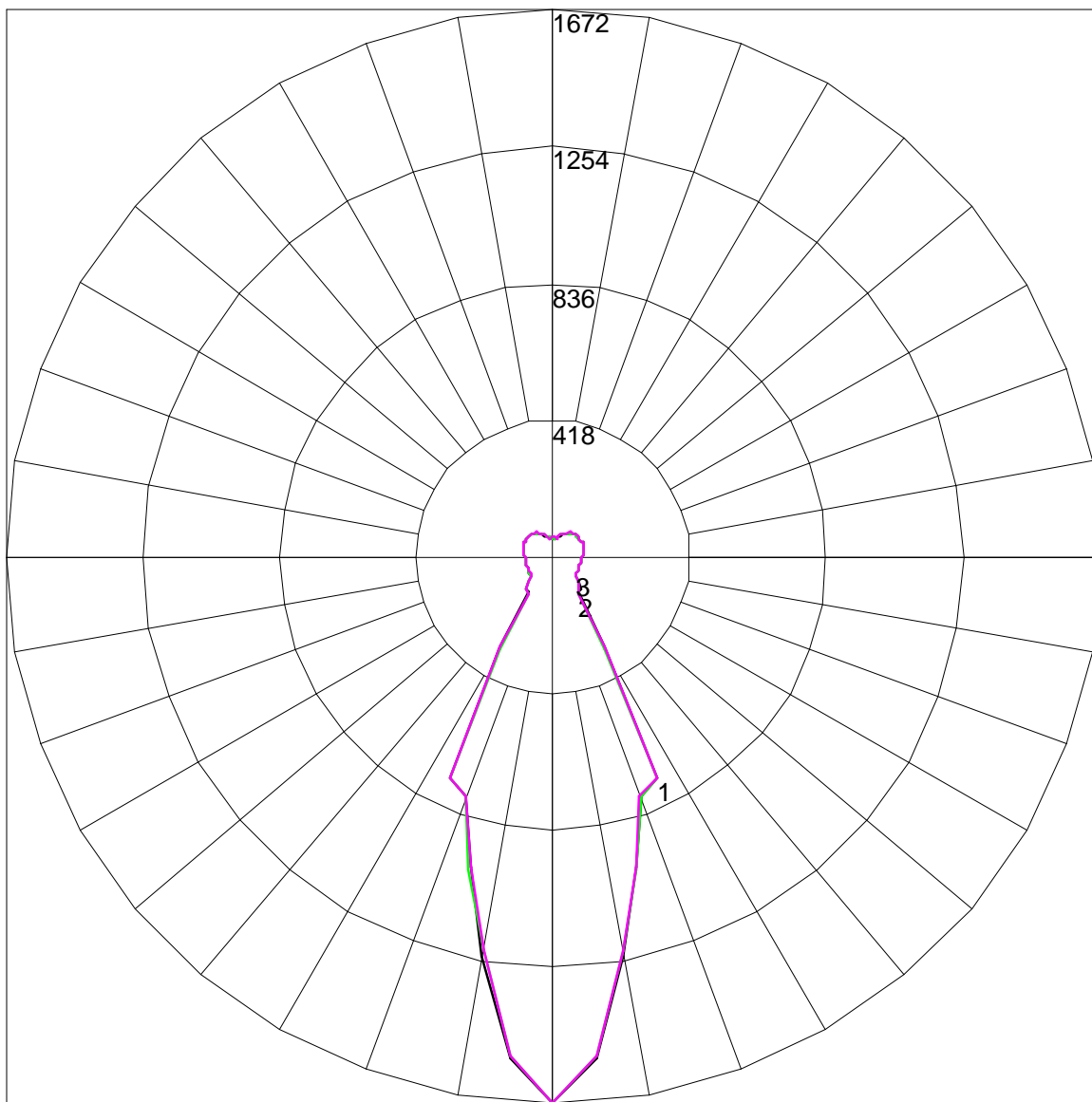
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69
1	102	97	93	89	96	92	88	85	82	79	76	72	70	68	64	62	61	57
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	58	56	54	50
3	87	78	71	65	82	74	68	63	67	62	58	60	56	53	54	51	48	45
4	81	71	63	58	76	67	61	56	61	56	52	55	51	48	50	47	44	41
5	76	65	57	52	72	62	55	50	57	51	47	51	47	44	47	43	40	38
6	71	60	52	47	67	57	51	46	53	47	43	48	44	40	44	40	37	35
7	67	56	48	43	64	53	47	42	49	44	40	45	41	37	41	38	35	33
8	63	52	45	40	60	50	43	39	46	41	37	43	38	35	39	36	33	31
9	60	49	42	37	57	47	40	36	43	38	34	40	36	33	37	34	31	29
10	57	46	39	35	54	44	38	34	41	36	32	38	34	31	35	32	29	28

POLAR GRAPH



Maximum Candela = 1672.337 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)