



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LEDPG4HTVLOWT40120-277V_S.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Photopia 2020.1.0 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] Mon Apr 12 16:38:58 2021
 [TEST] 1
 [MANUFAC] BEGHELI
 [LUMCAT]
 [LUMINAIRE] BS100LEDPG4HTVLOWT40120-277V_S
 [LAMP] LED 0.915W DURIS S5 (150mA)
 [LAMPCAT] GW PSLRS1.PC-LRLT-5L7N-1
 [OTHER]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4421
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	30
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.86
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.21 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.32 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3341	3166	4055
55	3109	3505	4895
65	2659	4020	4972
75	1918	3956	4690
85	1302	3393	3968

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>
0	768.91	768.91	768.91	768.91	768.91	768.91	768.91
5	753.44	765.86	771.13	784.31	812.92	811.36	815.87
10	748.41	764.76	792.28	827.92	875.56	887.89	912.97
15	731.66	769.46	835.85	885.28	924.73	940.82	959.55
20	731.47	772.39	843.13	903.53	932.73	956.80	953.68
25	719.08	762.93	839.96	885.36	919.59	933.42	944.29
30	686.36	745.46	822.01	857.18	880.48	904.11	934.60
35	666.19	721.00	786.18	806.80	840.33	890.64	903.06
40	622.00	679.50	725.93	775.20	825.08	898.02	930.44
45	578.21	629.16	684.10	735.88	838.80	962.02	1013.06
50	517.39	568.98	633.99	738.47	895.50	1042.51	1103.69
55	449.58	494.78	592.22	747.83	945.00	1089.04	1143.22
60	375.40	422.89	553.52	765.88	963.30	1078.19	1128.64
65	297.26	345.97	527.23	755.36	917.88	1013.89	1045.19
70	214.25	276.73	482.42	702.53	837.84	931.47	954.57
75	145.04	216.06	419.52	619.87	737.92	815.15	846.32
80	91.14	162.71	354.13	524.77	624.70	695.71	729.45
85	48.29	112.65	271.55	409.63	496.55	553.25	576.26
90	25.69	74.05	195.72	288.24	349.80	383.63	397.85
95	11.12	40.49	121.21	175.16	204.50	223.76	229.52
100	5.68	18.46	65.06	96.65	115.13	120.21	121.88
105	3.73	6.31	28.78	49.51	61.43	68.14	70.84
110	2.39	2.67	11.94	24.39	32.12	37.76	40.49
115	1.66	1.57	3.75	11.83	16.19	21.01	22.20
120	1.10	1.07	0.96	4.63	8.81	10.63	12.58
125	0.62	0.65	0.25	1.25	3.91	5.78	6.98
130	0.32	0.33	0.13	0.14	1.26	2.56	3.05
135	0.20	0.18	0.07	0.05	0.13	0.51	1.04
140	0.19	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	320.74	N.A.	7.30
0-30	717.93	N.A.	16.20
0-40	1224.1	N.A.	27.70
0-60	2519.77	N.A.	57.00
0-80	3795.73	N.A.	85.90
0-90	4185.9	N.A.	94.70
10-90	4109.39	N.A.	92.90
20-40	903.36	N.A.	20.40
20-50	1505.54	N.A.	34.10
40-70	1990.49	N.A.	45.00
60-80	1275.96	N.A.	28.90
70-80	581.14	N.A.	13.10
80-90	390.17	N.A.	8.80
90-110	220.03	N.A.	5.00
90-120	232.35	N.A.	5.30
90-130	235.01	N.A.	5.30
90-150	235.32	N.A.	5.30
90-180	235.32	N.A.	5.30
110-180	15.29	N.A.	0.30
0-180	4421.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.51
10-20	244.23
20-30	397.20
30-40	506.16
40-50	602.18
50-60	693.49
60-70	694.82
70-80	581.14
80-90	390.17
90-100	170.81
100-110	49.22
110-120	12.32
120-130	2.66
130-140	0.31
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	103	96	91	85	100	94	88	83	88	84	80	83	79	76	79	76	73	70
2	92	81	73	65	88	79	71	64	74	67	62	70	64	59	66	61	57	54
3	82	70	60	52	79	67	58	51	64	56	49	60	53	48	57	51	46	43
4	75	61	50	42	72	59	49	42	55	47	41	52	45	39	49	43	38	36
5	68	53	43	35	65	52	42	35	49	41	34	46	39	33	44	37	32	30
6	62	47	37	30	60	46	37	30	44	35	29	41	34	28	39	33	28	25
7	58	43	33	26	55	42	32	26	39	31	25	37	30	25	36	29	24	22
8	53	39	29	23	51	38	29	23	36	28	22	34	27	22	33	26	21	19
9	50	35	26	20	48	34	26	20	33	25	20	31	24	19	30	24	19	17
10	47	32	24	18	45	32	24	18	30	23	18	29	22	17	28	22	17	15

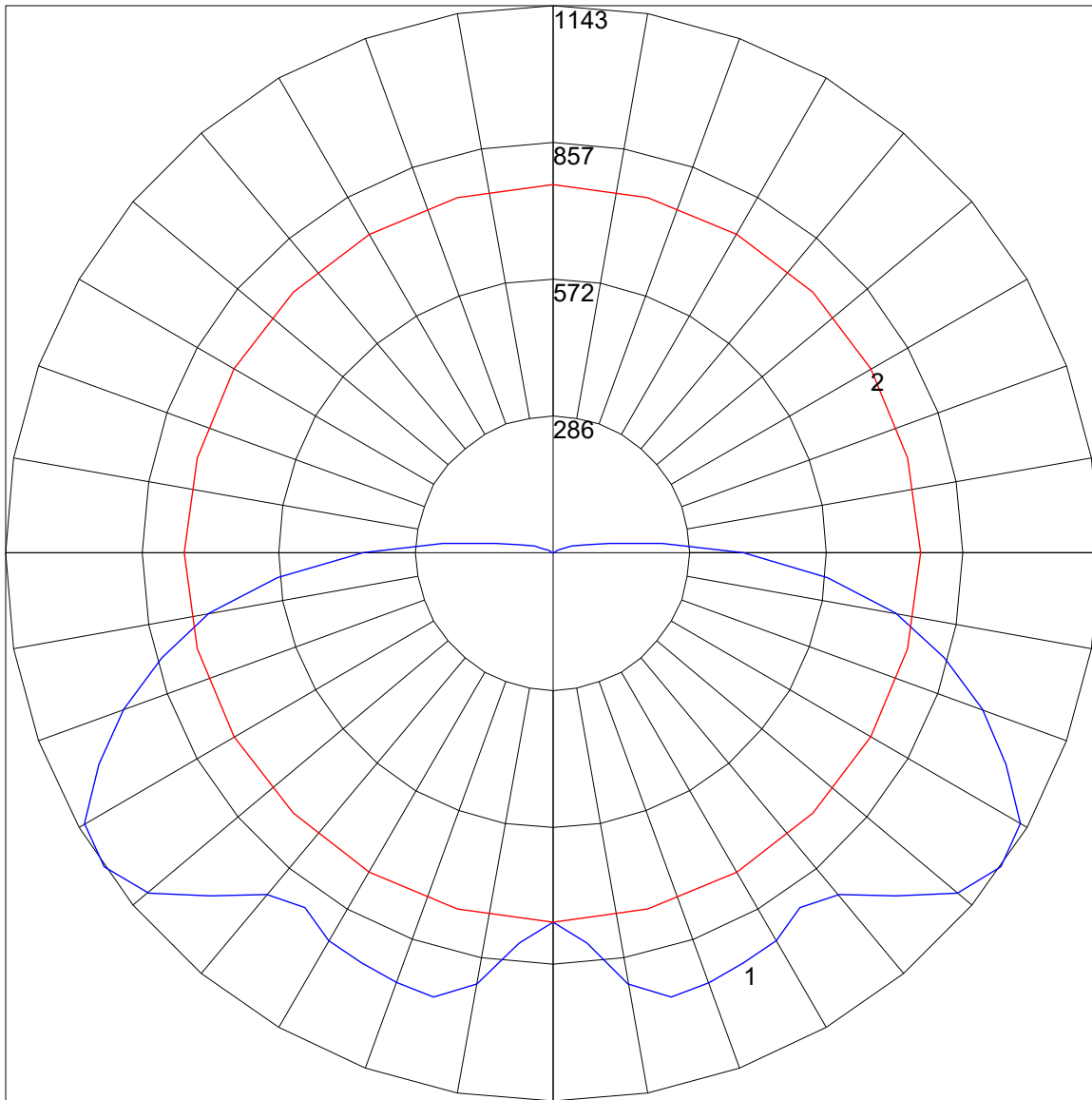
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.0	15.7	14.4	16.1	16.6	19.4	21.2	19.9	21.6	22.0
	3H	15.5	17.1	16.0	17.6	18.0	22.5	24.1	22.9	24.5	25.0
	4H	16.1	17.6	16.6	18.1	18.6	23.9	25.4	24.3	25.8	26.3
	6H	16.5	18.0	17.0	18.4	18.9	25.2	26.7	25.7	27.1	27.6
	8H	16.7	18.1	17.2	18.5	19.1	25.9	27.3	26.4	27.7	28.3
	12H	16.8	18.1	17.3	18.6	19.1	26.5	27.8	27.0	28.3	28.9
4H	2H	15.9	17.4	16.4	17.8	18.3	19.8	21.3	20.2	21.7	22.2
	3H	17.8	19.1	18.2	19.6	20.1	23.1	24.4	23.6	24.9	25.4
	4H	18.5	19.7	19.0	20.2	20.7	24.6	25.9	25.1	26.4	26.9
	6H	19.0	20.1	19.5	20.6	21.1	26.2	27.3	26.7	27.8	28.4
	8H	19.1	20.2	19.7	20.7	21.3	27.0	28.0	27.5	28.5	29.1
	12H	19.3	20.2	19.8	20.8	21.3	27.7	28.7	28.3	29.2	29.8
8H	4H	19.8	20.8	20.3	21.3	21.9	24.8	25.9	25.4	26.4	27.0
	6H	20.6	21.5	21.2	22.1	22.6	26.6	27.5	27.1	28.0	28.6
	8H	20.9	21.7	21.5	22.3	22.9	27.4	28.3	28.0	28.8	29.4
	12H	21.1	21.8	21.7	22.4	23.1	28.4	29.1	28.9	29.7	30.3
12H	4H	20.1	21.0	20.6	21.6	22.2	24.9	25.8	25.4	26.4	26.9
	6H	21.1	21.9	21.7	22.4	23.1	26.6	27.4	27.2	28.0	28.6
	8H	21.5	22.2	22.1	22.8	23.5	27.5	28.3	28.1	28.8	29.5

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 1143.22 Located At Horizontal Angle = 90, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)