

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS101LEDECO-E4HTHOWT40120-277V.IES

DESCRIPTION INFORMATION (From Photometric File)

IES:LM-63-2019

[TEST] 1858, GONI II

[TESTLAB] CSA Group

[TESTDATE] 02/17/2026

[ISSUEDATE] 02/17/2026

[MANUFAC] BEGHELLI NORTH AMERICA

[LUMCAT] BS101LEDECO-E4HTHOWT40120-277

[LUMINAIRE] 49.5"L. X 4.7"W. X 3.25"H. LINEAR LED LUMINAIRE

[MORE] FROSTED POLYCARBONATE DIFFUSER

[LAMP] 4000K

[OTHER] THE CANDELA VALUES ARE ABOSOLUTE AND SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS

[FILEGENINFO] TEST AT AN ACCREDITED LAB. AN ABSOLUTE TEST AT A LAB WITH ACCREDITATION FOR THIS TEST MET

[DRIVER] PAIRUI PGAU040C0700VSLM1

[STABILIZATION] 70:15.4 STABLE

[AMBIENT] 25.0 deg C

[INPUT] 120.1VAC, 0.31A, 36.13W, 0.9785PF, 13.55 %ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4670
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	36.13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.13 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.10 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8829	8488	9262
55	7606	8736	8622
65	6296	8299	6789
75	4998	5785	4624
85	3965	3328	2246

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1527	1527	1527	1527	1527	1527	1527	1527	1527	1527
2.5	1513	1515	1519	1517	1521	1523	1524	1524	1523	1520
5.0	1508	1510	1514	1512	1517	1520	1522	1523	1520	1520
7.5	1500	1502	1503	1505	1510	1514	1517	1518	1516	1515
10.0	1484	1488	1492	1493	1500	1504	1506	1507	1505	1502
12.5	1467	1471	1475	1478	1486	1491	1492	1492	1487	1484
15.0	1448	1451	1454	1460	1467	1473	1474	1470	1463	1461
17.5	1420	1424	1432	1436	1444	1446	1444	1440	1433	1429
20.0	1392	1396	1402	1409	1415	1416	1413	1408	1398	1395
22.5	1360	1363	1368	1377	1381	1382	1377	1370	1361	1358
25.0	1319	1324	1333	1339	1343	1340	1335	1327	1321	1318
27.5	1277	1283	1291	1297	1299	1295	1291	1283	1278	1276
30.0	1233	1238	1244	1252	1252	1249	1244	1237	1233	1233
32.5	1180	1187	1197	1203	1203	1199	1194	1190	1188	1190
35.0	1128	1134	1143	1150	1151	1148	1143	1141	1142	1147
37.5	1072	1078	1085	1095	1098	1096	1091	1091	1097	1106
40.0	1010	1017	1028	1037	1042	1040	1039	1043	1054	1071
42.5	948	955	966	977	984	983	987	996	1013	1037
45.0	884	892	903	916	924	927	937	953	976	1007
47.5	819	827	840	855	864	872	890	914	942	981
50.0	754	762	777	794	806	817	843	874	913	955
52.5	687	698	714	733	748	766	799	838	885	930
55.0	624	634	651	672	692	720	759	805	857	904
57.5	561	570	592	614	641	674	719	773	828	872
60.0	501	510	533	559	591	630	682	741	793	830
62.5	444	454	474	505	542	590	648	704	752	773
65.0	387	397	423	455	497	550	613	665	695	707
67.5	334	346	372	407	454	509	571	612	629	630
70.0	287	298	322	360	411	466	518	547	556	543
72.5	239	251	277	315	366	421	464	477	472	455
75.0	195	207	233	270	319	368	399	401	388	372
77.5	156	166	190	225	270	307	328	325	311	299
80.0	117	126	152	183	219	246	256	253	244	233
82.5	85	94	114	143	171	192	197	194	187	178
85.0	61	67	80	106	129	147	151	147	140	138
87.5	37	44	61	77	96	103	106	108	108	105
90.0	25	30	44	57	71	77	80	83	83	82
92.5	21	24	29	42	53	62	66	68	67	68
95.0	17	18	25	33	42	47	52	56	58	59
97.5	15	16	20	27	34	40	46	50	53	53
100.0	14	14	17	23	29	36	42	46	49	50
102.5	12	13	15	19	26	32	38	43	46	48
105.0	11	11	12	17	23	29	35	40	44	46
107.5	10	10	11	14	20	26	32	38	42	45
110.0	9	9	9	11	16	23	29	35	39	42
112.5	8	8	8	9	13	20	26	32	36	40
115.0	7	7	7	8	11	16	22	28	33	36
117.5	6	6	6	6	9	12	18	24	29	33
120.0	5	5	5	5	7	10	15	20	25	29
122.5	5	5	4	4	5	8	11	15	20	24
125.0	4	4	4	4	4	6	9	12	16	20
127.5	4	3	3	3	3	5	7	9	12	16
130.0	0	0	0	0	0	4	5	7	9	12
132.5	0	0	0	0	0	0	4	5	7	9

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135.0	0	0	0	0	0	0	0	4	6	7
137.5	0	0	0	0	0	0	0	0	4	6
140.0	0	0	0	0	0	0	0	0	3	4
142.5	0	0	0	0	0	0	0	0	0	3
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles**

Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	1527	1527	1527	1527	1527	1527	1527	1527	1527
2.5	1522	1525	1528	1530	1533	1537	1541	1537	1541
5.0	1521	1524	1526	1526	1531	1537	1537	1536	1535
7.5	1518	1520	1521	1519	1525	1531	1528	1527	1524
10.0	1501	1504	1506	1506	1508	1511	1514	1511	1513
12.5	1482	1483	1483	1482	1485	1488	1490	1488	1490
15.0	1459	1457	1456	1453	1457	1461	1460	1459	1459
17.5	1426	1424	1423	1422	1425	1428	1429	1427	1427
20.0	1392	1390	1388	1389	1392	1394	1395	1393	1394
22.5	1356	1354	1352	1353	1357	1360	1360	1359	1358
25.0	1316	1315	1315	1317	1322	1325	1326	1325	1323
27.5	1275	1276	1278	1282	1288	1290	1293	1291	1291
30.0	1235	1237	1241	1247	1255	1259	1263	1263	1262
32.5	1196	1201	1207	1216	1225	1235	1236	1240	1234
35.0	1158	1167	1177	1189	1203	1213	1218	1221	1219
37.5	1122	1137	1152	1169	1185	1196	1206	1209	1209
40.0	1092	1112	1132	1152	1171	1183	1194	1196	1199
42.5	1062	1088	1115	1136	1156	1172	1178	1184	1181
45.0	1037	1069	1098	1121	1139	1153	1157	1161	1157
47.5	1017	1051	1079	1100	1116	1121	1130	1126	1133
50.0	997	1030	1053	1071	1079	1084	1082	1083	1080
52.5	971	1000	1019	1028	1032	1033	1025	1025	1018
55.0	936	959	973	974	972	964	961	954	955
57.5	900	911	912	908	899	892	884	880	876
60.0	846	848	841	831	821	814	802	799	794
62.5	774	770	760	749	737	729	720	716	712
65.0	702	689	674	664	653	643	638	633	633
67.5	618	601	586	577	569	560	557	553	554
70.0	528	513	499	493	488	482	478	476	475
72.5	437	427	420	414	411	405	405	401	405
75.0	360	352	345	341	340	335	334	331	337
77.5	292	283	277	276	275	275	269	269	269
80.0	225	222	221	218	217	215	213	211	214

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82.5	176	174	171	168	167	165	162	160	161
85.0	137	132	128	127	125	127	119	120	113
87.5	100	99	99	97	94	92	92	90	92
90.0	80	80	78	76	75	71	71	70	73
92.5	68	66	63	62	61	61	58	58	56
95.0	58	57	56	55	53	51	51	50	51
97.5	53	52	51	49	48	46	46	45	46
100.0	51	50	48	47	45	44	43	43	42
102.5	48	48	47	45	44	42	42	41	41
105.0	47	47	46	44	43	42	41	40	40
107.5	46	46	45	44	42	41	40	40	40
110.0	44	44	44	43	42	41	40	40	39
112.5	41	42	42	42	41	40	40	39	39
115.0	39	40	40	40	40	39	39	39	39
117.5	35	37	38	38	38	38	37	37	37
120.0	32	33	35	35	36	36	36	36	36
122.5	28	30	31	32	33	33	33	33	33
125.0	24	26	28	29	30	30	30	31	31
127.5	19	22	24	25	26	27	27	28	28
130.0	15	18	20	21	23	24	24	24	24
132.5	11	14	16	18	19	20	20	21	21
135.0	9	11	12	14	15	16	17	17	17
137.5	7	8	10	11	12	13	13	14	14
140.0	5	6	8	9	9	10	11	11	12
142.5	4	5	6	7	8	8	8	9	9
145.0	3	4	5	5	6	6	7	7	7
147.5	0	3	4	4	5	5	5	6	6
150.0	0	0	0	3	4	4	4	4	4
152.5	0	0	0	0	3	3	4	4	4
155.0	0	0	0	0	0	0	0	0	3
157.5	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	556.18	N.A.	11.90
0-30	1167.15	N.A.	25.00
0-40	1899.55	N.A.	40.70
0-60	3440.07	N.A.	73.70
0-80	4385.06	N.A.	93.90
0-90	4526.05	N.A.	96.90
10-90	4381.26	N.A.	93.80
20-40	1343.37	N.A.	28.80
20-50	2131.99	N.A.	45.70
40-70	2133.27	N.A.	45.70
60-80	944.99	N.A.	20.20
70-80	352.24	N.A.	7.50
80-90	140.99	N.A.	3.00
90-110	92.13	N.A.	2.00
90-120	119.90	N.A.	2.60
90-130	136.02	N.A.	2.90
90-150	143.94	N.A.	3.10
90-180	144.14	N.A.	3.10
110-180	52.00	N.A.	1.10
0-180	4670.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	144.79
10-20	411.38
20-30	610.98
30-40	732.40
40-50	788.62
50-60	751.90
60-70	592.75
70-80	352.24
80-90	140.99
90-100	54.74
100-110	37.39
110-120	27.76
120-130	16.13
130-140	6.17
140-150	1.75
150-160	0.20
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	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	80
2	97	89	81	75	94	86	80	74	82	77	72	79	74	70	75	71	68	66
3	88	77	69	62	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	68	59	52	78	67	58	52	64	57	51	61	55	50	59	53	49	46
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	38	48	42	37	35
7	63	50	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	37	31	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	25
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

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UGR TABLE - CORRECTED

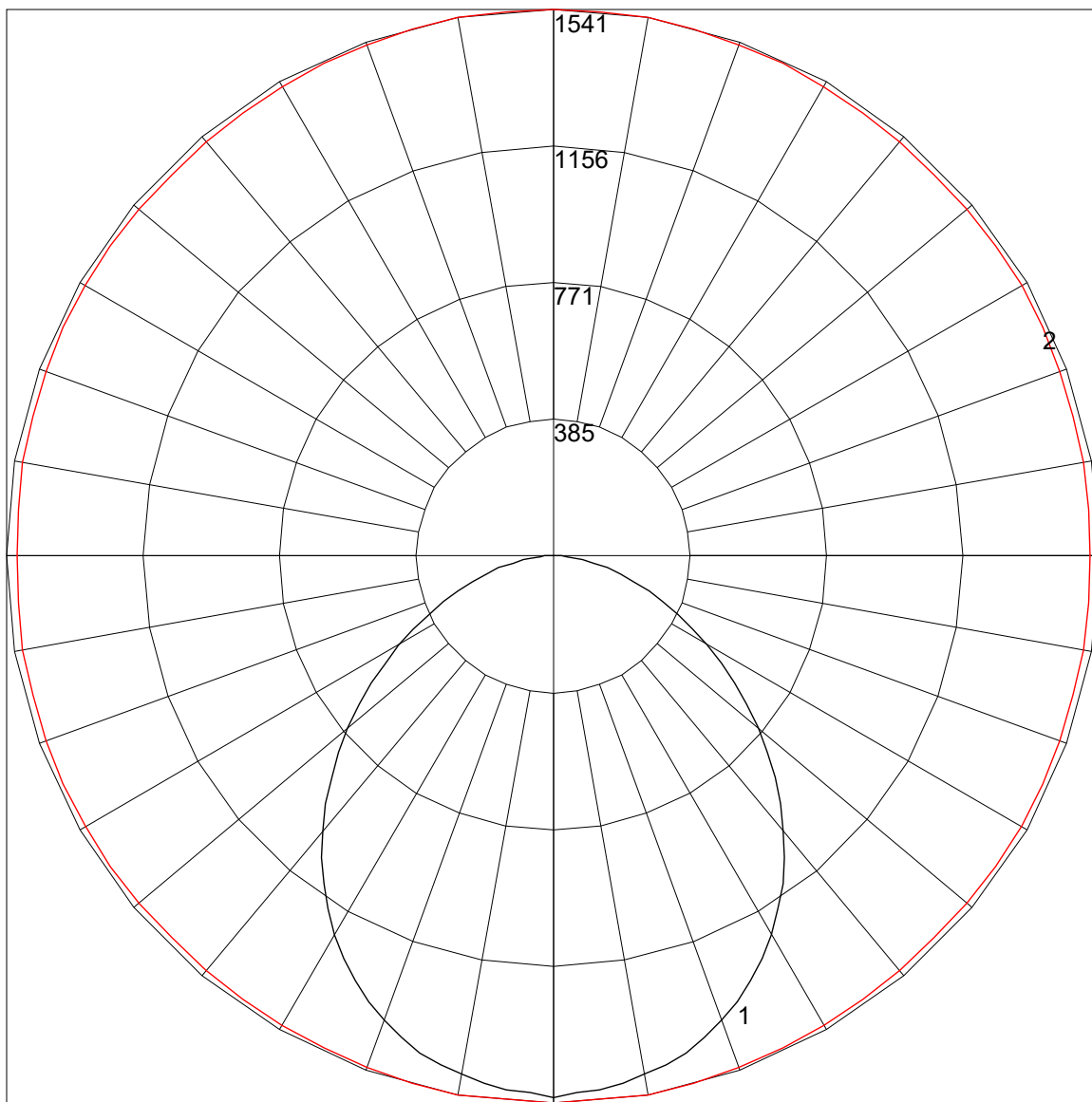
Reflectances

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	17.6	19.2	18.0	19.6	19.9	20.7	22.3	21.1	22.7	23.0
	3H	18.9	20.4	19.3	20.8	21.2	22.3	23.7	22.7	24.1	24.6
	4H	19.3	20.7	19.8	21.1	21.6	22.9	24.2	23.3	24.7	25.1
	6H	19.6	20.9	20.0	21.3	21.7	23.3	24.6	23.8	25.0	25.5
	8H	19.6	20.9	20.1	21.3	21.8	23.5	24.7	24.0	25.2	25.6
	12H	19.7	20.8	20.1	21.3	21.8	23.6	24.8	24.1	25.3	25.8
4H	2H	19.0	20.4	19.4	20.8	21.2	21.2	22.6	21.7	23.0	23.5
	3H	20.7	21.9	21.2	22.4	22.8	23.0	24.2	23.5	24.6	25.1
	4H	21.3	22.4	21.8	22.9	23.4	23.7	24.8	24.2	25.2	25.7
	6H	21.7	22.6	22.2	23.1	23.7	24.3	25.2	24.8	25.7	26.2
	8H	21.8	22.7	22.3	23.2	23.7	24.5	25.4	25.0	25.9	26.4
	12H	21.8	22.6	22.4	23.2	23.7	24.7	25.5	25.2	26.0	26.5
8H	4H	21.9	22.8	22.4	23.2	23.8	23.9	24.8	24.4	25.3	25.8
	6H	22.5	23.2	23.0	23.7	24.3	24.6	25.3	25.1	25.9	26.4
	8H	22.7	23.3	23.2	23.9	24.4	24.9	25.5	25.4	26.1	26.6
	12H	22.8	23.4	23.3	23.9	24.5	25.1	25.7	25.7	26.3	26.9
12H	4H	21.9	22.7	22.5	23.3	23.8	23.9	24.7	24.5	25.3	25.8
	6H	22.6	23.2	23.1	23.7	24.4	24.6	25.3	25.2	25.8	26.4
	8H	22.8	23.4	23.4	24.0	24.6	25.0	25.5	25.5	26.1	26.7

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1541 Located At Horizontal Angle = 80, Vertical Angle = 2.5

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

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)