

# Paciente BLGB with door

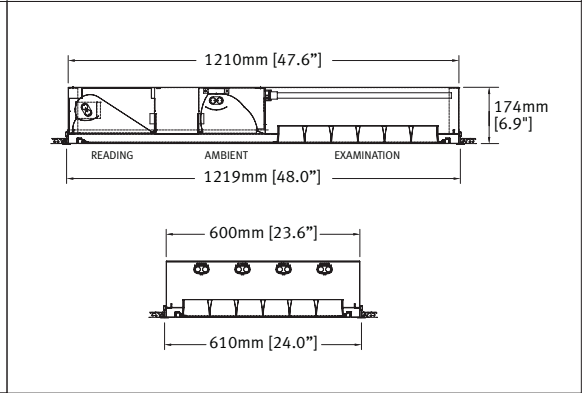
Recessed . 2x4



**PROJECT:**

**TYPE:**

**NOTES:**



<b>BLGB</b>	<b>1CF40</b>		<b>2/4</b>		<b>W</b>					
Model	Ambient / Reading Lamp	Exam Lamp	Size	Exam Control	Finish	Ballast	Circuitry	Mounting	Voltage	Options

Ambient / Reading Lamps	Exam Lamps	Size	Exam Control	Finish	Ballast
<b>1CF40</b>	<b>3CF40</b>	<b>2/4 2' x 4'</b>	<b>SL</b> Specular parabolic louver	<b>W</b> White	<b>R</b> Electronic Rapid Start
	<b>4CF40</b>		<b>SSL</b> Semi-specular parabolic louver		<b>D1</b> 0-10V Dimming
	<b>4CF50</b>		<b>WPL</b> White painted parabolic louver		<b>D2</b> DALI
	<b>4CF55</b>		<b>MP</b> Micro prismatic lens		<i>For other, contact factory</i>
	<b>4T5</b>				
	<b>4T5H0</b>				

Circuitry	Mounting	Voltage	Options
<b>2</b> Two switchlegs ( <i>ambient/exam</i> )	<b>RT</b> Recessed T-Bar	<b>120</b>	<b>N</b> None
<b>B</b> Battery Pack ( <i>120 / 277V only</i> ) ( <i>Connected to ambient lamp</i> )	<b>RD</b> Recessed Drywall	<b>277</b>	<b>LV*</b> LV controller
		<b>347</b>	<b>PSLV*</b> Pillow switch with LV controller
		<i>For other voltage, contact factory</i>	<b>NL</b> LED night light / chart light
			<b>F</b> Fuse
			<b>AM</b> Anti-microbial White
			<i>* Controls ambient and reading lamps 120 / 277V only</i>

**APPROVALS**    Signature \_\_\_\_\_    Date \_\_\_\_\_

FILE NAME: Paciente\_BLGB\_2x4

May.30.2013

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**Metalumen**

## SPECIFICATIONS

Due to the continuous improvement policy at Metalumen, we reserve the right to change our specifications without notice.

- Intended Use / Description** The BLGB series of luminaires has been specifically designed to meet the requirements for rehabilitation units, and convalescent and long term facilities, emergency and triage areas, and intensive care units. Optical system components have been specifically designed to provide powerful, glare-free seamless illumination for both healthcare professionals and patients. Its architectural design brings a relaxed, comfortable feel to any patient room environment.
- Housing** The luminaire body is constructed from 20 gauge cold rolled steel. The luminaire is equipped with a tight fitting door with a clear, high impact, UV stabilized 0.125" acrylic lens.
- Optical System** The ambient and reading light reflectors have been computer modeled and precision die formed from anodized aluminum to provide optimum lighting performance. The reflectors have a reflectance value of 98%. The examination light reflector is fabricated from cold rolled steel finished in a 90% reflective high gloss electrostatically applied white powder coat finish. The examination light has a low brightness parabolic louver with a pattern 12 lens overlay which provides low brightness and glare-free illumination. The luminaire can provide four lighting levels from a single unit.
- Light Distribution** Examination, Reading, Ambient
- Finish** The luminaire is finished in a high gloss electrostatically applied white powder coat finish having a reflectance value of 90%.
- Weight** 21.3 kg [47.0 lb]
- Mounting** The BLGB is available for recessed T-bar or recessed drywall.
- Electrical** Luminaires are available in 120, 277 and 347 volts
- Ballast** Fluorescent electronic ballasts, high power factor (<10% THD) rapid start.
- Lamps** The BLGB series of luminaires are available with CF, T5 and T5HO fluorescent lamps and LED.
- Approvals** Certified to NRTL and IES testing standards. All components cULus listed. RoHS compliant.
- Environment** Suitable for dry locations.

## WARRANTY

Metalumen will warrant defective LEDs, 5 years for boards and drivers from date of purchase. Warranty is valid if luminaire is installed and used according to specification.

If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

## FEATURES



### MEDILUMEN // Healthcare Lighting

Every product in our broad line of healthcare luminaires has been strategically engineered to meet modern healthcare demands while addressing patient needs and aesthetic requirements.

### MetaICE

Meta Ice is a smooth Continuum Optical System with a 91% transmission rate that creates smooth subdued lighting with no source imagery. Metalce is a premium lensing optic unique to Metalumen but coupled with a high performance side kicking specular reflector to maximize the lumens from the source creating an unparalleled lumen delivery.

**PHOTOMETRIC DATA - ALL**

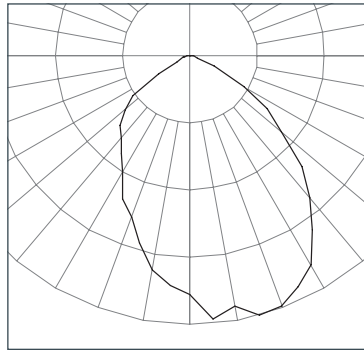
Report No.: BLGB-4-5CF-ALL  
 Total Lumens: 15750  
 Input Watts: 220  
 Efficiency: 52%  
 Efficacy: 37 lms/W  
 Power Factor: .975

**COEFFICIENTS OF UTILIZATION**

Zonal Cavity Method  
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RW												
0	62	62	62	62	60	60	60	60	58	58	58	58
1	58	56	54	52	56	55	53	52	52	51	50	50
2	53	50	47	45	52	49	46	44	47	45	43	43
3	49	45	41	38	48	44	41	38	42	40	37	37
4	46	40	36	33	44	39	36	33	38	35	32	32
5	42	36	32	29	41	36	32	29	35	31	29	29
6	39	33	29	26	38	32	28	26	32	28	25	25
7	36	30	26	23	36	30	26	23	29	25	23	23
8	34	27	23	21	33	27	23	21	26	23	20	20
9	32	25	21	19	31	25	21	19	24	21	19	19

**PHOTOMETRIC CURVE**



**LUMINANCE DATA (CD/M<sup>2</sup>)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3771	3883	3615
55	2716	2631	2810
65	796	875	939
75	174	180	296
85	86	89	95

**CANDLE DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	3788.39	3788.39	3788.39	3788.39	3788.39
5	4008.91	4207.71	4021.13	3547.61	4082.88
10	4032.33	4051.76	4105.47	3861.26	3911.87
15	3999.13	4267.86	3977.12	3927.55	3777.74
20	4189.50	4237.51	3857.10	3795.49	3585.36
25	4035.34	4053.87	3790.20	3601.56	3541.83
30	3719.71	3840.74	3773.68	3442.11	3293.93
35	3402.57	3391.41	3532.93	3328.33	3046.41
40	2969.61	2942.18	3160.74	3120.04	2709.46
45	2335.49	2514.54	2726.79	2859.25	2497.45
50	1828.54	1877.82	2257.76	2341.20	2026.81
55	1438.19	1490.96	1646.51	1887.58	1720.71
60	884.99	977.40	1017.18	1178.86	984.73
65	337.21	411.71	463.73	543.65	483.95
70	125.25	132.38	195.13	246.43	246.43
75	53.07	65.37	75.46	102.39	119.30
80	31.27	36.17	46.74	48.06	59.65
85	15.26	12.18	26.28	17.40	26.44
90	6.51	0.70	4.04	1.36	5.11

**PHOTOMETRIC DATA - AMBIENT**

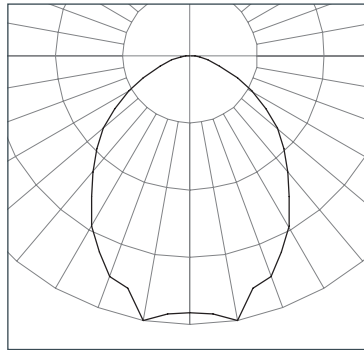
Report No.: BLGB-4-5CF-AMB  
 Total Lumens: 3150  
 Input Watts: 44  
 Efficiency: 59%  
 Efficacy: 42 lms/W  
 Power Factor: .975

**COEFFICIENTS OF UTILIZATION**

Zonal Cavity Method  
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RW												
0	70	70	70	70	68	68	68	68	65	65	65	65
1	65	63	61	59	64	62	60	58	59	58	56	56
2	61	57	53	51	59	56	53	50	54	51	49	49
3	56	51	47	44	55	50	47	44	49	45	43	43
4	52	46	42	39	51	46	42	38	44	41	38	38
5	49	42	38	34	47	42	37	34	40	37	34	34
6	45	39	34	31	44	38	34	31	37	33	30	30
7	42	36	31	28	42	35	31	28	34	30	28	28
8	40	33	28	25	39	32	28	25	32	28	25	25
9	37	30	26	23	37	30	26	23	29	26	23	23
10	35	28	24	21	35	28	24	21	27	24	21	21

**PHOTOMETRIC CURVE**



**LUMINANCE DATA (CD/M<sup>2</sup>)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	365	571	857
55	167	265	673
65	88	128	449
75	69	100	207
85	81	63	66

**CANDLE DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	1110.40	1110.40	1110.40	1110.40	1110.40
5	1092.92	1087.31	1125.04	1142.21	1117.15
10	1070.44	1033.52	1027.75	1074.40	1158.58
15	1030.27	1048.63	1004.07	1024.34	1040.10
20	900.52	917.59	983.20	926.90	1013.06
25	863.70	864.96	853.56	873.22	931.68
30	650.83	700.29	777.59	806.53	850.17
35	530.06	530.77	661.25	702.85	740.63
40	349.65	402.22	527.54	634.11	656.02
45	214.64	253.24	384.25	540.26	569.30
50	130.28	154.33	273.20	438.00	488.77
55	84.23	101.01	159.13	332.53	397.81
60	51.00	63.04	104.21	229.90	303.50
65	35.50	47.60	65.59	145.34	224.51
70	25.74	34.68	50.33	92.02	136.21
75	19.95	29.71	40.48	57.14	81.42
80	19.78	23.09	31.85	37.69	41.43
85	13.57	14.45	18.10	18.14	18.16
90	0.96	1.63	4.59	3.79	4.30

**PHOTOMETRIC DATA - EXAM**

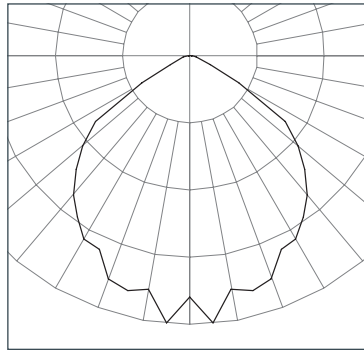
Report No.: BLGB-4-5CF-EXAM  
 Total Lumens: 9450  
 Input Watts: 132  
 Efficiency: 65%  
 Efficacy: 46 lms/W  
 Power Factor: .975

**COEFFICIENTS OF UTILIZATION**

Zonal Cavity Method  
 Effective Floor Cavity Reflectance = .20

RC RW	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	
RW												
0	77	77	77	77	75	75	75	75	72	72	72	
1	72	69	67	65	70	68	66	64	65	63	62	
2	66	62	58	55	65	61	57	54	58	55	53	
3	61	55	50	47	59	54	50	46	52	48	45	
4	56	49	44	40	55	48	44	40	47	43	39	
5	52	44	39	35	50	43	38	35	42	38	34	
6	48	40	34	30	47	39	34	30	38	33	30	
7	44	36	31	27	43	36	30	27	35	30	27	
8	41	33	28	24	40	32	27	24	32	27	24	
9	38	30	25	22	38	30	25	22	29	25	21	
10	36	28	23	20	35	27	23	20	27	22	19	

**PHOTOMETRIC CURVE**



**LUMINANCE DATA (CD/M<sup>2</sup>)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2686	2668	3177
55	2323	2547	2408
65	558	567	755
75	22	17	11
85	3	16	8

**CANDLE DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	2287.52	2287.52	2287.52	2287.52	2287.52
5	2550.45	2441.57	2423.55	2492.54	2413.62
10	2257.75	2422.63	2427.60	2354.37	2410.03
15	2306.41	2267.61	2303.22	2309.35	2372.36
20	2256.31	2220.63	2275.28	2360.08	2378.43
25	2036.54	2115.92	2182.20	2335.85	2244.91
30	2008.08	2057.26	2136.24	2191.60	2220.26
35	1870.21	1899.36	1991.03	2148.45	2245.59
40	1724.19	1751.16	1907.53	2166.30	2216.86
45	1528.47	1586.55	1851.25	2136.36	2200.49
50	1335.67	1427.84	1732.26	1869.49	1825.97
55	1094.17	1179.71	1386.76	1442.27	1489.29
60	530.05	698.28	770.95	831.66	821.99
65	207.13	239.29	274.76	332.61	311.44
70	63.83	72.36	65.31	96.36	98.14
75	16.42	16.76	24.97	18.65	23.33
80	12.33	14.39	21.16	17.96	21.49
85	13.00	15.58	14.09	14.24	15.36
90	5.85	4.42	4.24	7.54	6.42

**PHOTOMETRIC DATA - EXAM with door**

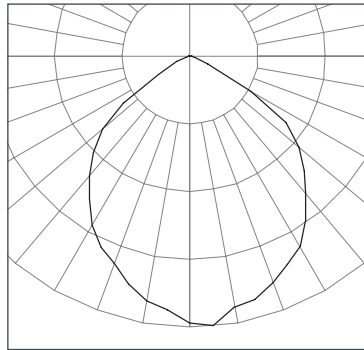
Report No.: BLGB-4-5CF-EXAM DOOR  
 Total Lumens: 9450  
 Input Watts: 132  
 Efficiency: 53%  
 Efficacy: 38 lms/W  
 Power Factor: .975

**COEFFICIENTS OF UTILIZATION**

Zonal Cavity Method  
 Effective Floor Cavity Reflectance = .20

RC RW	80				70				50			
	70	50	30	10	70	50	30	10	50	30	10	
RW												
0	63	63	63	63	62	62	62	62	59	59	59	
1	59	57	55	54	58	56	54	53	54	52	51	
2	55	51	48	46	53	50	47	45	48	46	44	
3	50	46	42	39	49	45	42	39	43	40	38	
4	47	41	37	34	45	40	37	34	39	36	33	
5	43	37	33	30	42	36	32	29	35	32	29	
6	40	33	29	26	39	33	29	26	32	29	26	
7	37	30	26	23	36	30	26	23	29	26	23	
8	35	28	24	21	34	28	24	21	27	23	21	
9	32	26	22	19	32	25	21	19	25	21	19	

**PHOTOMETRIC CURVE**



**LUMINANCE DATA (CD/M<sup>2</sup>)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2208	2233	2424
55	1790	1721	1858
65	321	410	318
75	40	42	54
85	10	20	42

**CANDLE DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	2319.10	2319.10	2319.10	2319.10	2319.10
5	2283.54	2354.93	2335.49	2256.43	2231.51
10	2211.09	2220.99	2246.16	2334.47	2218.23
15	2168.91	2190.87	2181.74	2184.63	2189.06
20	2031.08	2100.45	2042.30	2201.45	2151.67
25	1940.78	2004.30	2067.37	2099.36	2059.17
30	1857.21	1909.38	1950.77	1972.79	1984.70
35	1783.27	1747.98	1778.83	1864.00	1858.99
40	1522.98	1553.27	1678.73	1810.51	1787.74
45	1367.04	1408.97	1568.54	1656.74	1674.92
50	1152.82	1230.37	1350.24	1449.13	1419.24
55	947.71	1017.80	1076.68	1114.65	1137.93
60	552.13	613.12	621.37	628.87	581.39
65	135.81	166.50	217.56	195.36	163.71
70	33.04	45.12	55.01	56.97	60.16
75	12.08	12.14	17.55	21.66	21.66
80	7.76	9.32	9.44	15.77	19.48
85	1.80	3.41	5.94	7.03	11.71
90	0.00	0.73	2.67	3.48	2.75

**PHOTOMETRIC DATA - READING**

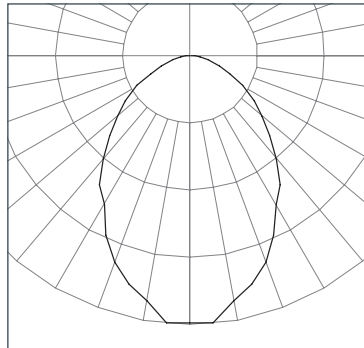
Report No.: BLGB-4-5CF-READ  
 Total Lumens: 3150  
 Input Watts: 44  
 Efficiency: 58%  
 Efficacy: 41 lms/W  
 Power Factor: .975

**COEFFICIENTS OF UTILIZATION**

Zonal Cavity Method  
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RW												
0	69	69	69	69	67	67	67	67	64	64	64	64
1	64	61	59	57	62	60	58	56	58	56	55	55
2	59	55	51	48	57	54	50	48	52	49	47	47
3	54	49	45	41	53	48	44	41	46	43	40	40
4	50	44	39	36	49	43	39	36	42	38	35	35
5	46	40	35	32	45	39	35	31	38	34	31	31
6	43	36	31	28	42	36	31	28	35	31	28	28
7	40	33	28	25	39	33	28	25	32	28	25	25
8	38	30	26	23	37	30	26	23	29	25	23	23
9	35	28	24	21	35	28	24	21	27	23	21	21
10	33	26	22	19	33	26	22	19	25	22	19	19

**PHOTOMETRIC CURVE**



**LUMINANCE DATA (CD/M<sup>2</sup>)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	915	573	583
55	714	404	432
65	517	272	236
75	261	93	72
85	80	56	67

**CANDLE DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	1060.13	1060.13	1060.13	1060.13	1060.13
5	994.84	1067.48	1007.84	1037.24	973.24
10	988.91	988.57	923.63	933.03	890.76
15	1005.17	942.44	895.50	805.15	807.53
20	962.14	875.88	746.53	730.68	701.31
25	896.64	787.80	676.37	643.59	603.51
30	816.78	679.59	574.82	567.40	546.90
35	741.12	625.29	519.12	497.36	506.67
40	662.04	534.60	459.72	431.07	447.06
45	607.51	448.17	385.27	360.40	343.48
50	496.34	374.68	326.55	279.78	260.90
55	421.96	312.43	243.07	210.92	217.50
60	334.12	242.19	181.72	185.14	189.21
65	258.23	173.07	138.69	122.88	95.01
70	183.77	123.92	82.79	39.45	32.19
75	102.68	72.33	37.49	24.64	20.84
80	54.28	38.81	22.61	18.93	14.47
85	21.92	19.09	16.05	13.53	11.29
90	6.20	3.86	5.68	7.27	7.25

**PHOTOMETRIC DATA - READING with door**

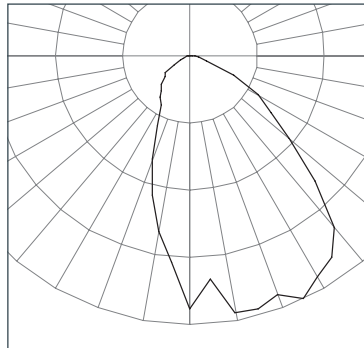
Report No.: BLGB-4-5CF-READ DOOR  
 Total Lumens: 3150  
 Input Watts: 44  
 Efficiency: 50%  
 Efficacy: 36 lms/W  
 Power Factor: .975

**COEFFICIENTS OF UTILIZATION**

Zonal Cavity Method  
 Effective Floor Cavity Reflectance = .20

RC	80				70				50			
	RW	70	50	30	10	70	50	30	10	50	30	10
RW												
0	59	59	59	59	58	58	58	58	55	55	55	55
1	55	53	51	50	54	52	50	49	50	49	47	47
2	51	47	44	42	50	46	44	42	45	43	41	41
3	47	42	39	36	46	42	38	36	40	37	35	35
4	43	38	34	31	42	37	34	31	36	33	31	31
5	40	34	30	27	39	34	30	27	33	29	27	27
6	37	31	27	24	36	31	27	24	30	26	24	24
7	35	28	24	22	34	28	24	22	27	24	21	21
8	32	26	22	19	32	26	22	19	25	22	19	19
9	30	24	20	18	30	24	20	18	23	20	18	18
10	29	22	19	16	28	22	19	16	22	18	16	16

**PHOTOMETRIC CURVE**



**LUMINANCE DATA (CD/M<sup>2</sup>)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	960	901	621
55	694	587	503
65	360	334	308
75	84	74	128
85	47	29	23

**CANDLE DISTRIBUTION**

	0.0	22.5	45.0	67.5	90.0
0	874.42	874.42	874.42	874.42	874.42
5	779.09	776.22	834.25	788.02	755.06
10	913.25	899.95	890.94	766.97	803.55
15	918.49	905.20	883.72	798.00	702.77
20	897.38	877.89	850.06	736.49	720.86
25	911.18	926.78	832.35	775.43	636.22
30	919.63	878.47	824.18	715.00	617.60
35	904.24	849.81	762.95	676.10	562.82
40	747.79	772.45	719.80	605.62	489.36
45	594.17	609.29	632.97	549.41	428.88
50	430.59	446.53	499.52	481.09	366.40
55	367.36	340.37	367.44	396.72	307.94
60	266.40	268.62	245.98	292.12	231.12
65	152.39	165.48	177.25	196.61	158.65
70	52.37	61.14	94.55	107.60	103.17
75	25.65	28.48	30.93	52.99	51.45
80	14.98	16.69	19.95	22.75	20.61
85	8.32	8.94	8.61	10.51	6.38
90	0.00	1.68	1.59	1.45	1.73