



Picasso Lighting

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLD-4-PD-4-D5-I5-27-80-FW-W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 13313159.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 11/13/2023JS
[MANUFAC] Picasso Lighting Industries
[LUMCAT] BLD-4-PD-4-D5-I5-27-80-FW-W
[LUMINAIRE] Formed White aluminum housing, plastic lens enclosures
[LAMP] 96 White LEDs down, 96 White LEDs up
[BALLAST] Two ERP PSB50W-1200-42-S Driver
[OTHER] 24.4 C, 119.989 V, 0.476329 A, 49.8 W, 0.974777 PF, 59.9705
[MORE] Hz
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	49.8
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11087	4496	3780
55	10396	3566	2989
65	9336	2685	2268
75	7763	1847	1601
85	5791	1168	1080

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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>
0.0	592.25	592.25	592.25	592.25	592.25
2.5	588.77	589.94	592.70	594.06	593.73
5.0	585.30	587.64	593.15	595.88	595.22
7.5	581.82	585.32	593.60	597.68	596.70
10.0	578.35	583.01	594.06	599.50	598.18
12.5	570.72	577.69	587.90	593.32	592.15
15.0	563.10	572.36	581.76	587.16	586.11
17.5	555.48	567.06	575.61	580.99	580.08
20.0	547.85	561.73	569.47	574.82	574.04
22.5	535.01	549.79	558.65	565.46	565.67
25.0	522.16	537.87	547.81	556.10	557.29
27.5	509.33	525.92	536.99	546.74	548.92
30.0	496.48	513.99	526.17	537.37	540.53
32.5	480.68	497.70	512.12	523.88	527.52
35.0	464.88	481.42	498.08	510.36	514.52
37.5	449.07	465.12	484.03	496.87	501.52
40.0	433.26	448.82	469.99	483.36	488.51
42.5	414.05	429.98	452.48	466.65	471.96
45.0	394.85	411.12	434.96	449.95	455.40
47.5	375.63	392.26	417.45	433.23	438.83
50.0	356.42	373.42	399.93	416.53	422.28
52.5	333.30	351.80	379.41	396.43	402.66
55.0	310.21	330.18	358.89	376.32	383.04
57.5	287.09	308.55	338.38	356.22	363.41
60.0	263.98	286.95	317.85	336.12	343.79
62.5	240.10	263.59	295.18	314.15	321.49
65.0	216.21	240.24	272.50	292.17	299.19
67.5	192.32	216.88	249.82	270.20	276.86
70.0	168.44	193.53	227.15	248.22	254.56
72.5	145.44	171.04	205.23	226.44	232.70
75.0	122.44	148.54	183.32	204.67	210.84
77.5	99.45	126.03	161.42	182.89	188.97
80.0	76.44	103.53	139.50	161.11	167.10
82.5	61.13	88.59	124.64	146.17	152.37
85.0	45.80	73.66	109.79	131.24	137.65
87.5	30.46	58.72	94.92	116.30	122.92
90.0	15.14	43.79	80.06	101.37	108.19
92.5	18.38	35.75	64.06	82.00	87.19
95.0	26.65	36.93	62.64	79.80	84.78
97.5	38.98	37.88	62.52	78.07	82.92
100.0	53.91	44.05	62.40	78.13	82.39
102.5	71.83	71.24	62.44	79.87	84.15
105.0	89.75	119.49	64.63	79.92	84.50
107.5	107.80	175.47	77.18	79.15	83.30
110.0	125.50	205.39	111.73	81.71	83.51
112.5	143.26	227.75	183.45	92.92	87.87
115.0	160.07	247.72	286.82	123.62	101.98
117.5	176.89	265.54	416.95	200.27	142.39
120.0	193.47	281.58	502.12	316.28	227.75
122.5	209.94	296.59	546.00	480.21	356.43
125.0	226.17	310.18	567.16	656.63	536.24
127.5	241.93	322.92	580.22	755.36	719.16
130.0	257.08	335.20	589.36	799.86	821.54
132.5	271.72	346.86	595.02	814.98	863.52

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CANDELA TABULATION - (Cont.)

135.0	285.99	357.71	596.75	818.44	877.78
137.5	299.91	367.60	594.09	814.62	879.67
140.0	313.12	376.78	587.62	803.34	871.33
142.5	326.08	385.41	577.66	783.93	853.43
145.0	338.21	393.10	566.17	757.27	826.39
147.5	350.11	399.82	553.24	725.50	791.24
150.0	360.69	405.00	539.36	690.98	750.88
152.5	370.44	409.60	524.96	655.61	708.13
155.0	379.12	412.90	510.33	620.74	665.16
157.5	387.21	415.59	495.45	586.31	622.88
160.0	394.11	416.97	480.94	553.56	582.73
162.5	400.18	418.15	468.15	524.68	546.66
165.0	405.30	418.64	456.68	498.29	513.90
167.5	409.70	418.63	446.28	475.35	485.53
170.0	413.40	418.63	437.06	455.85	461.70
172.5	416.49	418.63	429.68	441.10	443.97
175.0	418.50	418.50	423.98	430.76	430.77
177.5	419.81	418.38	421.00	424.45	423.14
180.0	419.62	419.62	419.62	419.62	419.62

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	220.23	N.A.	5.50
0-30	472.09	N.A.	11.80
0-40	782.27	N.A.	19.60
0-60	1430.74	N.A.	35.80
0-80	1879.48	N.A.	47.00
0-90	1990.25	N.A.	49.80
10-90	1933.78	N.A.	48.30
20-40	562.03	N.A.	14.10
20-50	894.52	N.A.	22.40
40-70	911.58	N.A.	22.80
60-80	448.74	N.A.	11.20
70-80	185.63	N.A.	4.60
80-90	110.77	N.A.	2.80
90-110	162.25	N.A.	4.10
90-120	369.29	N.A.	9.20
90-130	784.75	N.A.	19.60
90-150	1597.61	N.A.	39.90
90-180	2009.35	N.A.	50.20
110-180	1847.1	N.A.	46.20
0-180	3999.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.47
10-20	163.77
20-30	251.86
30-40	310.18
40-50	332.48
50-60	315.98
60-70	263.11
70-80	185.63
80-90	110.77
90-100	66.76
100-110	95.49
110-120	207.03
120-130	415.46
130-140	452.68
140-150	360.18
150-160	239.91
160-170	130.91
170-180	40.93

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	92	87	84	89	85	81	78	71	69	66	59	57	55	48	46	45	40
2	87	79	73	67	80	73	68	63	62	57	54	51	48	45	41	39	37	32
3	79	69	62	55	73	64	57	52	54	49	45	45	41	38	36	33	31	27
4	73	61	53	47	66	57	49	43	48	42	38	40	35	32	32	29	26	23
5	66	54	46	40	61	50	43	37	43	37	32	35	31	27	29	25	23	19
6	61	49	40	34	56	45	37	32	38	32	28	32	27	24	26	22	20	17
7	56	44	36	30	52	41	33	28	35	29	24	29	24	21	24	20	17	15
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	22	18	16	13
9	49	36	28	23	45	34	27	22	29	23	19	24	20	17	20	16	14	12
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	13	11

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UGR TABLE - CORRECTED

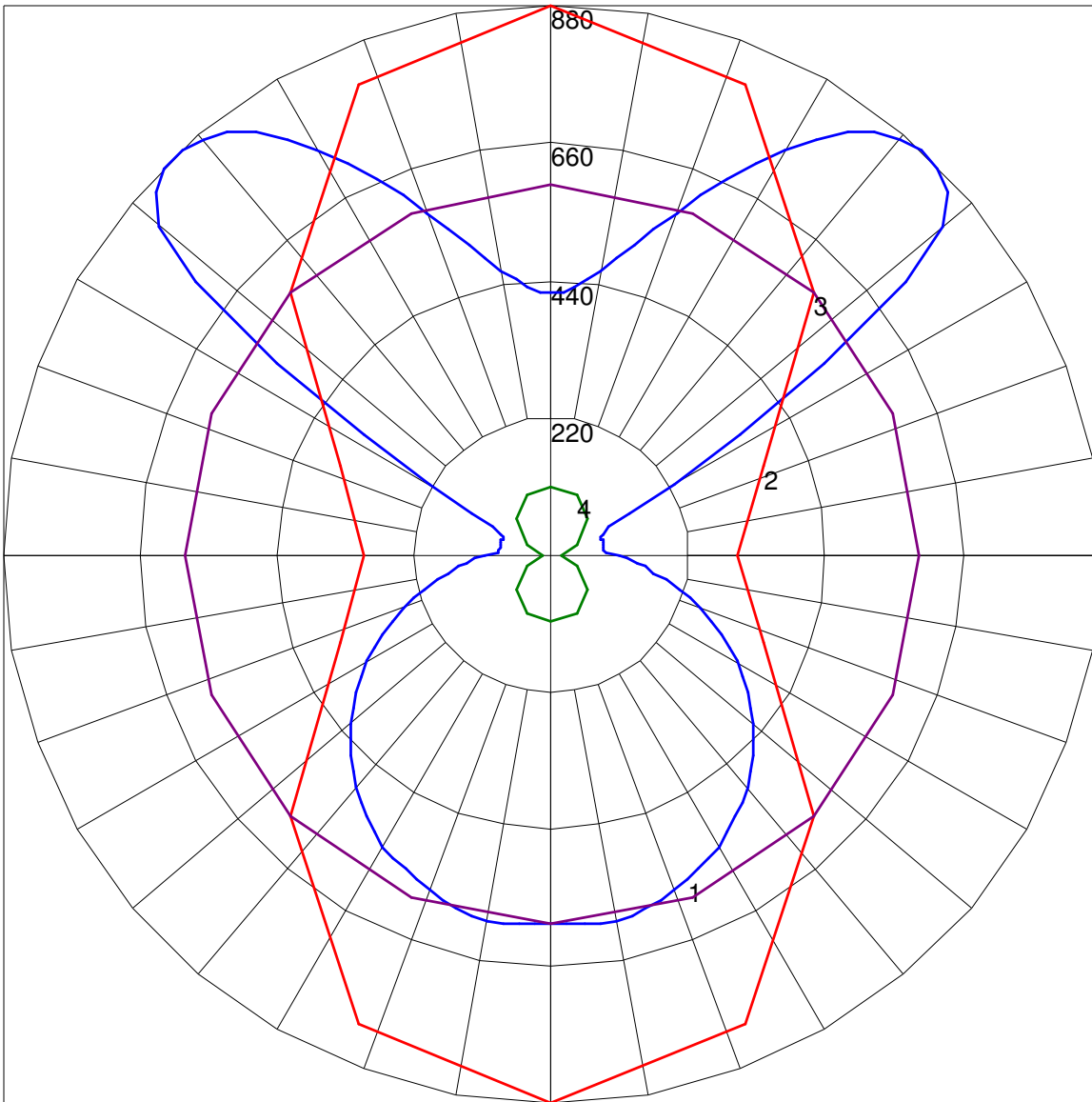
Reflectances

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	11.1	12.0	12.1	13.0	14.3	14.7	15.6	15.7	16.6	17.9
	3H	12.4	13.2	13.3	14.2	15.5	17.0	17.8	18.0	18.8	20.1
	4H	12.8	13.5	13.7	14.5	15.8	18.0	18.8	19.0	19.8	21.1
	6H	13.0	13.7	14.0	14.7	16.0	19.0	19.7	20.0	20.7	22.0
	8H	13.0	13.7	14.0	14.7	16.0	19.5	20.2	20.5	21.2	22.5
	12H	13.1	13.7	14.1	14.7	16.0	20.0	20.7	21.0	21.7	23.0
4H	2H	11.9	12.7	12.9	13.7	15.0	14.9	15.7	15.9	16.6	17.9
	3H	13.4	14.1	14.4	15.1	16.4	17.3	17.9	18.3	19.0	20.3
	4H	13.9	14.5	14.9	15.5	16.9	18.4	19.0	19.4	20.0	21.4
	6H	14.2	14.8	15.2	15.8	17.1	19.5	20.1	20.5	21.1	22.4
	8H	14.3	14.8	15.3	15.8	17.2	20.1	20.6	21.1	21.6	23.0
	12H	14.4	14.8	15.4	15.8	17.2	20.7	21.2	21.7	22.2	23.5
8H	4H	14.4	14.9	15.4	16.0	17.3	18.5	19.0	19.5	20.0	21.3
	6H	14.9	15.3	15.9	16.4	17.7	19.7	20.1	20.7	21.1	22.5
	8H	15.1	15.4	16.1	16.5	17.8	20.3	20.7	21.3	21.7	23.1
	12H	15.2	15.5	16.2	16.5	17.9	21.0	21.4	22.1	22.4	23.8
12H	4H	14.5	15.0	15.6	16.0	17.4	18.4	18.9	19.5	19.9	21.3
	6H	15.1	15.4	16.1	16.5	17.9	19.6	20.0	20.7	21.1	22.4
	8H	15.3	15.6	16.3	16.7	18.1	20.3	20.7	21.4	21.7	23.1

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 879.67 Located At Horizontal Angle = 90, Vertical Angle = 137.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (137.5) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (2)
4 - Horizontal Cone Through Vertical Angle (90)