



Picasso Lighting

IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLD-4-PD-4-D3-I3-27-80-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-D3-I3-27-80-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, 37.4 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	3000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	37.4
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	8316	3373	2836
55	7798	2674	2242
65	7004	2014	1701
75	5823	1385	1201
85	4345	876	810

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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	444.26	444.26	444.26	444.26	444.26
2.5	441.65	442.53	444.59	445.61	445.36
5.0	439.04	440.79	444.93	446.98	446.49
7.5	436.43	439.05	445.26	448.33	447.60
10.0	433.82	437.32	445.61	449.69	448.70
12.5	428.11	433.34	440.99	445.06	444.18
15.0	422.39	429.34	436.38	440.43	439.65
17.5	416.67	425.36	431.78	435.81	435.13
20.0	410.95	421.36	427.17	431.18	430.60
22.5	401.32	412.41	419.05	424.16	424.31
25.0	391.68	403.46	410.92	417.14	418.03
27.5	382.05	394.50	402.81	410.12	411.75
30.0	372.41	385.55	394.69	403.09	405.46
32.5	360.56	373.34	384.15	392.96	395.70
35.0	348.70	361.12	373.61	382.83	385.95
37.5	336.86	348.89	363.08	372.70	376.20
40.0	325.00	336.67	352.54	362.58	366.44
42.5	310.59	322.54	339.41	350.04	354.02
45.0	296.18	308.39	326.28	337.51	341.60
47.5	281.76	294.23	313.14	324.97	329.18
50.0	267.36	280.10	300.00	312.45	316.76
52.5	250.01	263.90	284.60	297.37	302.04
55.0	232.69	247.67	269.20	282.29	287.33
57.5	215.35	231.45	253.82	267.20	272.61
60.0	198.01	215.24	238.43	252.12	257.89
62.5	180.10	197.72	221.42	235.65	241.15
65.0	162.19	180.21	204.41	219.16	224.42
67.5	144.26	162.69	187.40	202.68	207.68
70.0	126.35	145.18	170.39	186.20	190.95
72.5	109.10	128.30	153.95	169.85	174.55
75.0	91.84	111.42	137.51	153.52	158.16
77.5	74.60	94.54	121.08	137.19	141.75
80.0	57.34	77.66	104.65	120.84	125.35
82.5	45.85	66.45	93.50	109.64	114.30
85.0	34.36	55.26	82.36	98.45	103.26
87.5	22.85	44.05	71.20	87.23	92.21
90.0	11.36	32.85	60.06	76.04	81.16
92.5	21.35	53.32	98.22	125.67	133.88
95.0	24.92	51.67	94.41	121.29	129.16
97.5	31.21	49.86	91.47	117.22	124.78
100.0	39.23	51.54	88.53	114.34	121.29
102.5	50.76	68.50	86.90	113.55	120.66
105.0	62.28	99.54	86.71	111.61	119.08
107.5	73.88	135.74	93.46	109.14	116.45
110.0	85.26	154.53	114.90	108.89	114.78
112.5	96.85	168.29	160.81	114.17	115.32
115.0	107.81	180.47	227.88	132.49	122.37
117.5	118.77	191.20	312.85	181.53	147.02
120.0	129.57	200.74	367.75	256.86	201.69
122.5	140.52	209.51	395.05	363.89	285.23
125.0	151.31	217.34	407.16	479.29	402.94
127.5	161.78	224.61	413.86	542.74	522.73
130.0	171.86	231.56	417.94	569.94	588.70
132.5	181.64	238.30	419.67	577.51	614.00

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CANDELA TABULATION - (Cont.)

135.0	191.18	244.52	418.76	577.29	620.76
137.5	200.48	250.08	414.92	572.19	619.25
140.0	209.31	255.17	408.55	562.12	610.90
142.5	217.97	260.26	399.79	546.48	596.14
145.0	226.08	264.71	390.03	525.99	575.28
147.5	234.03	268.52	379.31	502.09	548.98
150.0	241.10	271.30	367.95	476.36	519.20
152.5	247.62	274.23	356.73	450.14	487.73
155.0	253.42	276.30	345.35	424.25	456.11
157.5	258.83	277.95	333.81	398.66	424.94
160.0	263.44	278.73	322.51	374.19	395.21
162.5	267.50	279.52	313.70	353.85	369.67
165.0	270.92	279.84	305.78	335.17	346.36
167.5	273.86	279.83	298.57	318.79	325.98
170.0	276.33	279.83	292.15	304.71	308.63
172.5	278.39	279.83	287.22	294.85	296.78
175.0	279.75	279.75	283.41	287.94	287.95
177.5	280.62	279.67	281.41	283.72	282.85
180.0	280.49	280.49	280.49	280.49	280.49

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	165.20	N.A.	5.50
0-30	354.12	N.A.	11.80
0-40	586.79	N.A.	19.60
0-60	1073.21	N.A.	35.80
0-80	1409.83	N.A.	47.00
0-90	1492.92	N.A.	49.80
10-90	1450.56	N.A.	48.40
20-40	421.59	N.A.	14.10
20-50	670.99	N.A.	22.40
40-70	683.79	N.A.	22.80
60-80	336.61	N.A.	11.20
70-80	139.24	N.A.	4.60
80-90	83.09	N.A.	2.80
90-110	193.90	N.A.	6.50
90-120	364.20	N.A.	12.10
90-130	664.56	N.A.	22.20
90-150	1229.14	N.A.	41.00
90-180	1507.03	N.A.	50.20
110-180	1313.13	N.A.	43.80
0-180	2999.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.36
10-20	122.84
20-30	188.92
30-40	232.67
40-50	249.40
50-60	237.02
60-70	197.37
70-80	139.24
80-90	83.09
90-100	89.37
100-110	104.54
110-120	170.30
120-130	300.37
130-140	316.70
140-150	247.88
150-160	162.71
160-170	87.82
170-180	27.36

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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

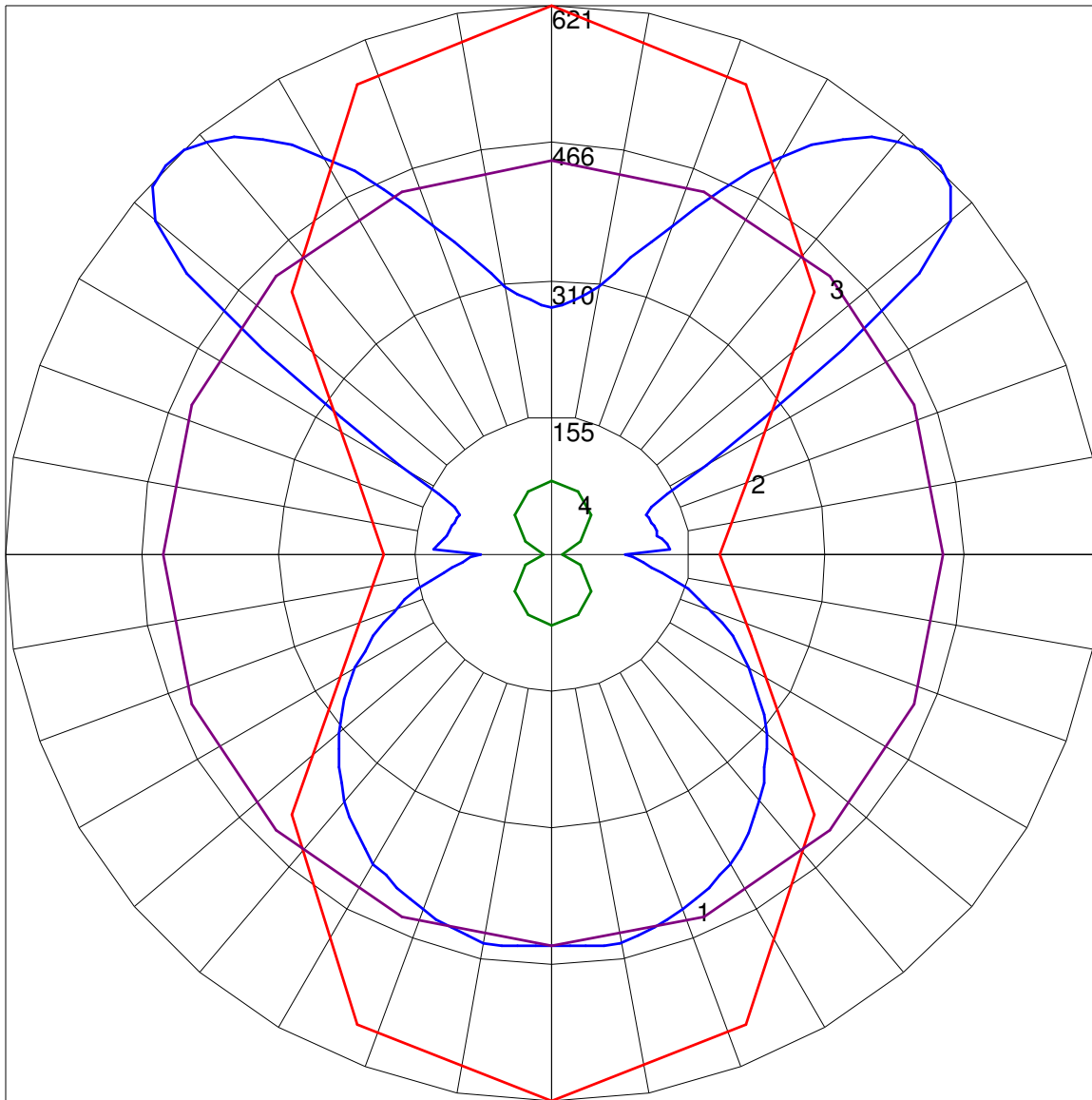
Reflectances

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	10.1	11.0	11.1	12.0	13.3	13.7	14.6	14.7	15.6	16.9
	3H	11.4	12.2	12.4	13.2	14.5	16.0	16.8	17.0	17.8	19.1
	4H	11.8	12.6	12.8	13.5	14.8	17.0	17.8	18.0	18.8	20.1
	6H	12.0	12.7	13.0	13.7	15.0	18.0	18.7	19.0	19.7	21.0
	8H	12.1	12.7	13.1	13.7	15.1	18.5	19.2	19.5	20.2	21.5
	12H	12.1	12.7	13.1	13.7	15.1	19.0	19.7	20.0	20.7	22.0
4H	2H	11.0	11.7	12.0	12.7	14.0	13.9	14.7	14.9	15.7	17.0
	3H	12.4	13.1	13.4	14.1	15.4	16.3	17.0	17.3	18.0	19.3
	4H	12.9	13.5	13.9	14.5	15.9	17.4	18.0	18.4	19.1	20.4
	6H	13.3	13.8	14.3	14.8	16.1	18.6	19.1	19.6	20.1	21.4
	8H	13.3	13.8	14.3	14.8	16.2	19.1	19.6	20.1	20.6	22.0
	12H	13.4	13.8	14.4	14.9	16.2	19.7	20.2	20.8	21.2	22.6
8H	4H	13.5	13.9	14.5	15.0	16.3	17.5	18.0	18.5	19.0	20.3
	6H	13.9	14.3	14.9	15.4	16.7	18.7	19.1	19.7	20.2	21.5
	8H	14.1	14.4	15.1	15.5	16.8	19.3	19.7	20.4	20.7	22.1
	12H	14.2	14.5	15.2	15.5	17.0	20.1	20.4	21.1	21.4	22.8
12H	4H	13.6	14.0	14.6	15.0	16.4	17.4	17.9	18.5	18.9	20.3
	6H	14.1	14.5	15.1	15.5	16.9	18.7	19.0	19.7	20.1	21.5
	8H	14.3	14.6	15.4	15.7	17.1	19.3	19.7	20.4	20.7	22.1

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 620.76 Located At Horizontal Angle = 90, Vertical Angle = 135

1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)

3 - Horizontal Cone Through Vertical Angle (2)

4 - Horizontal Cone Through Vertical Angle (90)