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Allentown, PA 18106
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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Picasso Lighting Industries

46 Sellers St
Kearny, NJ 07032-4216
United States

Catalog Number
MED-R-168W-334K-R3A3E10-90-S-ZT-UE (Full Fixture)

Order Number
11944942
Test Number
11944942.04

Test Date

2017-09-19

Prepared By

Javier Caban

Javier Caban, Technician

Approved By

Alexa Lambert Lambert

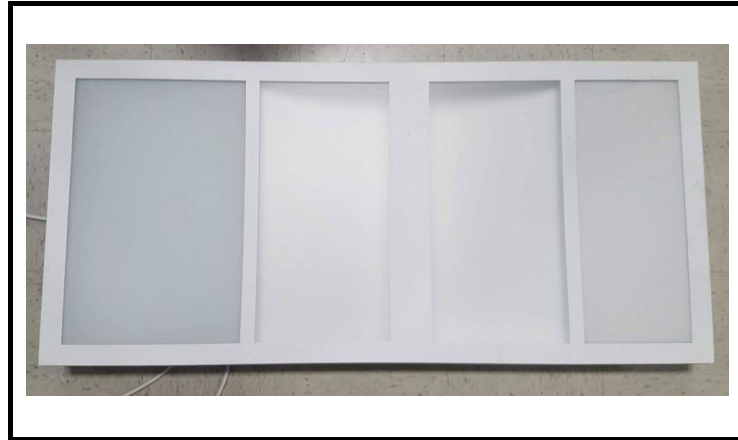
Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White formed steel housing, frosted plastic lens enclosure
Lamp: 348 white LEDs
Mounting: Recessed
Ballast/Driver: Four Philips XI054C150V054BST1 drivers

Luminaire



Luminaire Characteristics

Luminous Length: 44.50 in.
Luminous Width: 20.50 in.

Summary of Results

Total Luminaire Output:	11760 Lumens
Luminaire Efficacy:	67.5 lm/w
Maximum Candela:	4067 Candela

Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	1.458 A
Power:	174.3 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	6.85 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

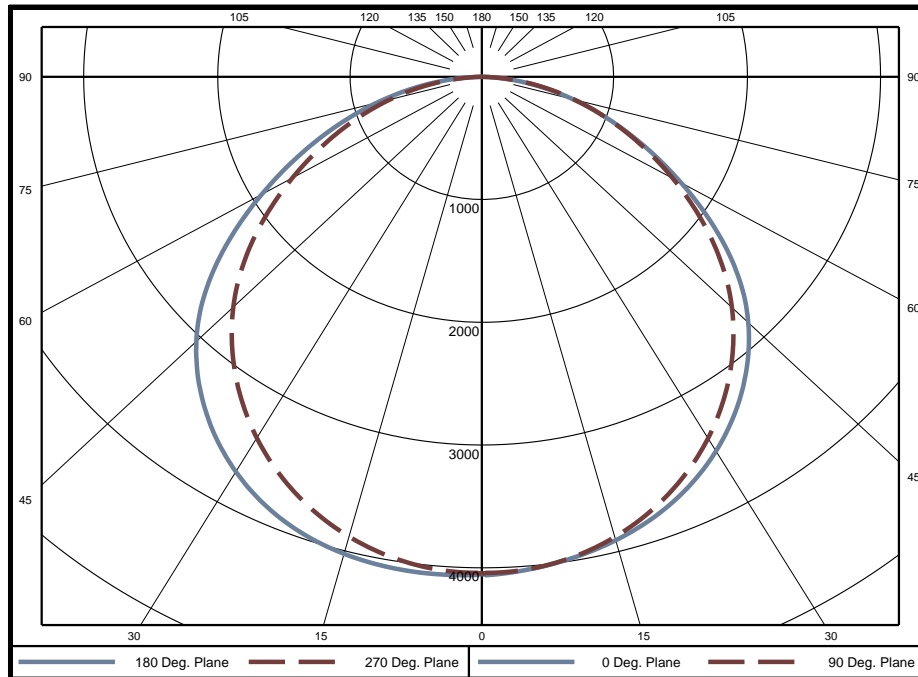
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	1.458 A	174.3 W	0.997	60 Hz	6.85 %

Summary of Results

Spacing Criteria
 0-180: 1.29
 90-270: 1.25

Total Lumen Output: 11760 Lumens
Luminaire Efficacy: 67.5 lm/w
Maximum Candela: 4067 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	97	0.8%	60-65	766	6.5%	120-125	0	0.0%
5-10	287	2.4%	65-70	620	5.3%	125-130	0	0.0%
10-15	470	4.0%	70-75	472	4.0%	130-135	0	0.0%
15-20	638	5.4%	75-80	324	2.8%	135-140	0	0.0%
20-25	788	6.7%	80-85	177	1.5%	140-145	0	0.0%
25-30	913	7.8%	85-90	41	0.3%	145-150	0	0.0%
30-35	1009	8.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	1072	9.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	1098	9.3%	100-105	0	0.0%	160-165	0	0.0%
45-50	1080	9.2%	105-110	0	0.0%	165-170	0	0.0%
50-55	1012	8.6%	110-115	0	0.0%	170-175	0	0.0%
55-60	901	7.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	5274	44.8%
0-60	9365	79.6%
0-90	11765	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050
5	4030	4025	4022	4022	4028	4038	4048	4058	4067	4058	4048	4038	4028	4022	4022	4025
10	3978	3971	3964	3963	3973	3995	4019	4043	4057	4043	4019	3995	3973	3963	3964	3971
15	3908	3897	3880	3870	3881	3917	3962	4003	4024	4003	3962	3917	3881	3870	3880	3897
20	3812	3798	3771	3747	3755	3806	3876	3934	3960	3934	3876	3806	3755	3747	3771	3798
25	3685	3668	3633	3593	3595	3664	3757	3829	3859	3829	3757	3664	3595	3593	3633	3668
30	3524	3507	3467	3412	3406	3491	3605	3685	3716	3685	3605	3491	3406	3412	3467	3507
35	3330	3312	3269	3202	3187	3289	3417	3503	3536	3503	3417	3289	3187	3202	3269	3312
40	3102	3085	3040	2966	2940	3054	3192	3282	3314	3282	3192	3054	2940	2966	3040	3085
45	2837	2820	2773	2697	2665	2787	2925	3019	3051	3019	2925	2787	2665	2697	2773	2820
50	2517	2501	2453	2385	2354	2472	2606	2696	2728	2696	2606	2472	2354	2385	2453	2501
55	2137	2123	2083	2030	2013	2114	2230	2309	2339	2309	2230	2114	2013	2030	2083	2123
60	1738	1729	1703	1668	1667	1745	1837	1903	1927	1903	1837	1745	1667	1668	1703	1729
65	1364	1357	1343	1325	1333	1392	1461	1512	1530	1512	1461	1392	1333	1325	1343	1357
70	1024	1020	1013	1007	1020	1064	1114	1151	1166	1151	1114	1064	1020	1007	1013	1020
75	714	714	712	713	727	758	792	819	829	819	792	758	727	713	712	714
80	433	432	433	438	451	471	492	508	515	508	492	471	451	438	433	432
85	170	171	173	179	189	199	209	217	220	217	209	199	189	179	173	171
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

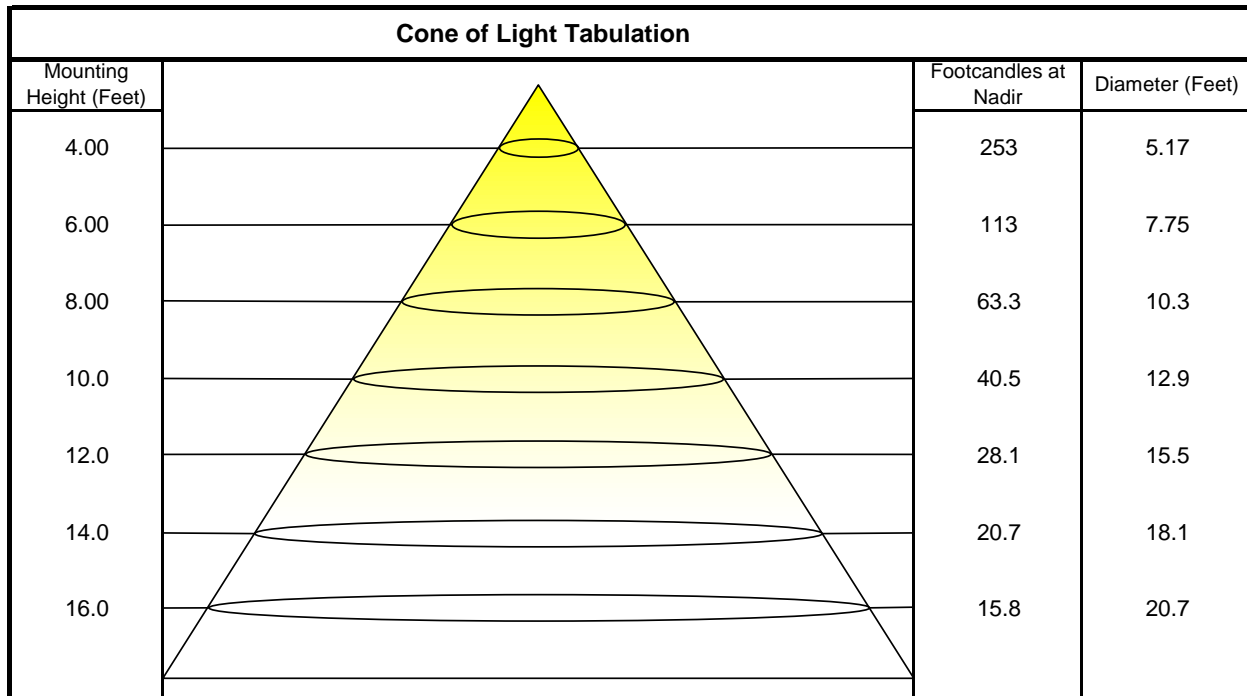
	0	45	90
0	6882	6882	6882
45	6817	6662	6405
55	6330	6171	5964
65	5483	5398	5358
75	4687	4675	4774
85	3323	3380	3692



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	14004	14004	14004	14004	13678	13678	13678	13678	13071	13071	13071	12514	12514	12514	12004	12004	12004	11763
1	12796	12235	11731	11278	12475	11967	11509	11094	11466	11089	10743	11006	10698	10413	10582	10335	10103	9857
2	11636	10664	9861	9185	11325	10442	9702	9075	10023	9400	8862	9637	9117	8660	9280	8850	8466	8210
3	10605	9362	8400	7633	10312	9175	8283	7563	8823	8058	7428	8498	7846	7298	8196	7644	7172	6913
4	9706	8290	7254	6462	9434	8133	7165	6416	7837	6994	6327	7562	6831	6239	7306	6676	6155	5898
5	8922	7403	6342	5559	8673	7271	6273	5527	7020	6140	5465	6787	6013	5405	6569	5891	5346	5095
6	8236	6661	5605	4846	8009	6549	5550	4824	6335	5444	4780	6136	5343	4737	5950	5245	4695	4451
7	7632	6035	5000	4274	7427	5939	4956	4258	5757	4871	4226	5586	4789	4194	5426	4709	4163	3928
8	7102	5503	4498	3808	6916	5421	4462	3795	5264	4393	3771	5117	4325	3747	4979	4260	3723	3498
9	6632	5047	4077	3421	6464	4976	4047	3412	4841	3990	3393	4713	3934	3375	4593	3880	3357	3140
10	6215	4654	3720	3098	6064	4593	3695	3091	4475	3647	3076	4364	3601	3062	4259	3555	3047	2840

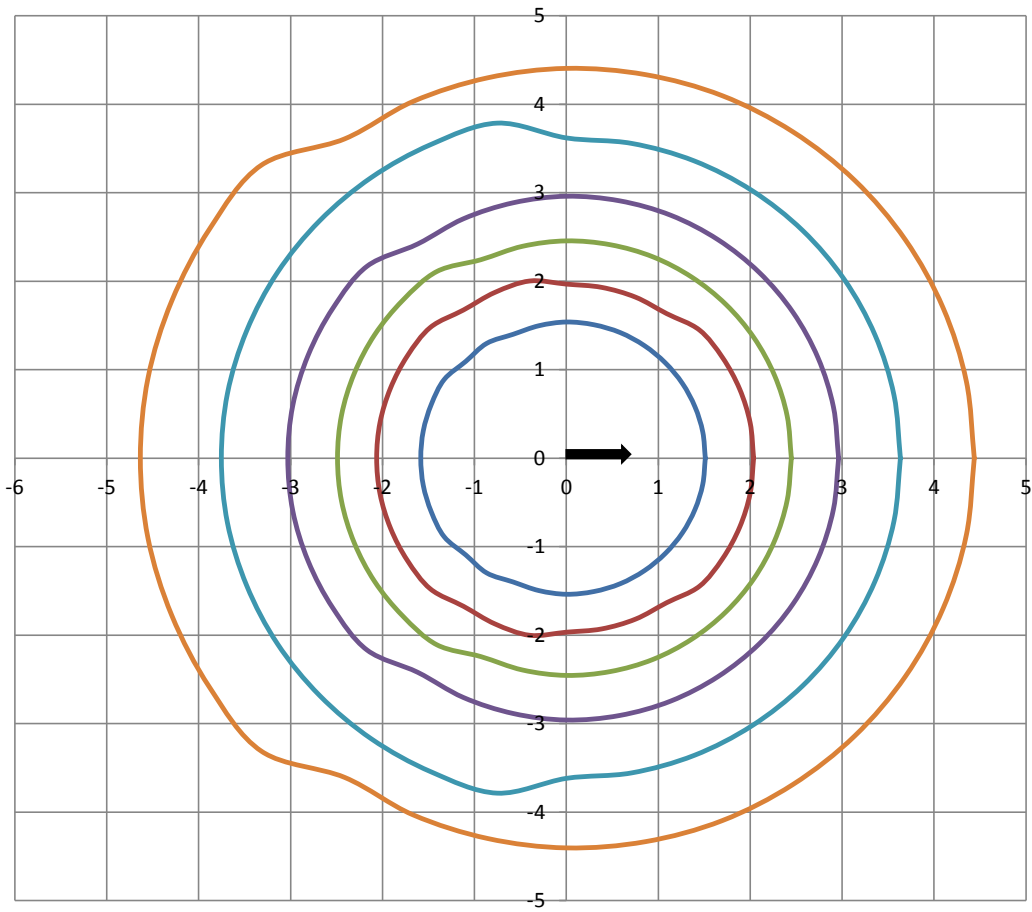
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	4050 Candela
Central Cone Intensity:	4046 Candela
Beam Flux:	8746.0 Lumens
Beam Angle (0-180):	115.2 Degrees
Beam Angle (90-270):	109.7 Degrees
Field Angle (0-180):	162.3 Degrees
Field Angle (90-270):	161.7 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

