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Indoor Distribution Test Report

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

Prepared For
H E Williams Inc
831 W Fairview Ave
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United States

Catalog Number
6PR-L40/835-DIM-UNV-L-W-OF-WH
Order Number
12326812
Test Number
12326812.33

Test Date

2018-06-07

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Black formed aluminum housing, white reflector, clear glass patterned lens enclosure
Lamp: One white LED
Mounting: Recessed
Ballast/Driver: Philips XI050C140V054DSM5

Luminaire



Luminaire Characteristics

Luminous Diameter: 5.50 in.

Summary of Results

Total Luminaire Output:	4394 Lumens
Luminaire Efficacy:	99.6 lm/w
Maximum Candela:	2329 Candela

Test Conditions

Test Temperature:	24.2 °C
Voltage:	120.0 VAC
Current:	0.3685 A
Power:	44.11 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.55 %

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



Distribution - Goniophotometer

Distribution Test Conditions

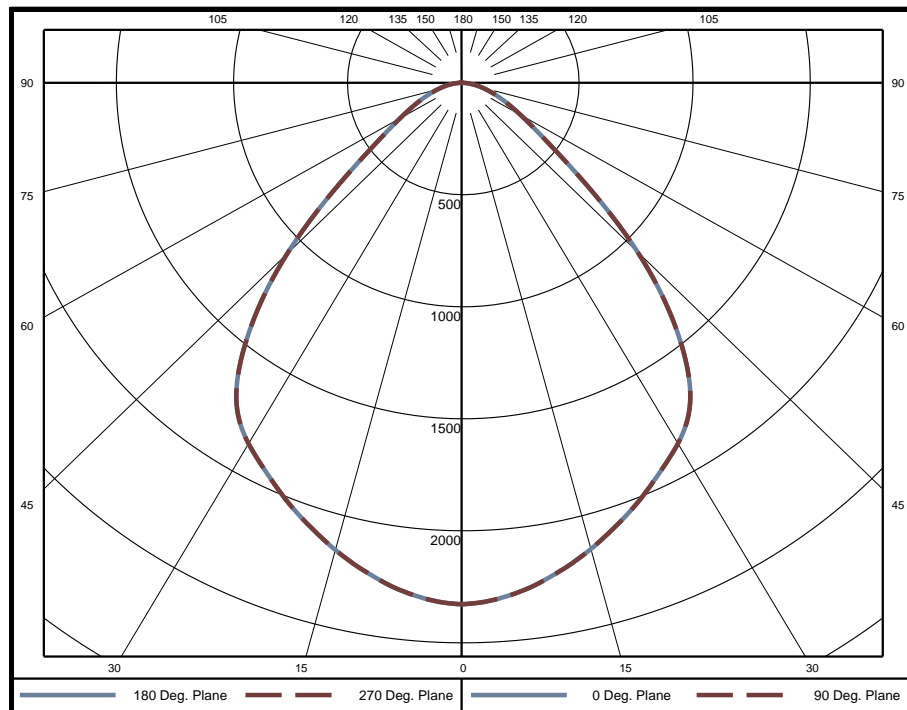
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.2 °C	120.0 VAC	0.3685 A	44.11 W	0.998	60 Hz	5.55 %

Summary of Results

Spacing Criteria
 0-180: 1.20
 90-270: 1.20

Total Lumen Output: 4394 Lumens
Luminaire Efficacy: 99.6 lm/w
Maximum Candela: 2329 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	55.3	1.3%	60-65	126.0	2.9%	120-125	0	0.0%
5-10	162.3	3.7%	65-70	93.6	2.1%	125-130	0	0.0%
10-15	260.5	5.9%	70-75	66.8	1.5%	130-135	0	0.0%
15-20	347.4	7.9%	75-80	44.1	1.0%	135-140	0	0.0%
20-25	422.2	9.6%	80-85	24.0	0.5%	140-145	0	0.0%
25-30	484.3	11.0%	85-90	6.7	0.2%	145-150	0	0.0%
30-35	530.7	12.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	532.4	12.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	471.5	10.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	358.0	8.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	239.6	5.5%	110-115	0	0.0%	170-175	0	0.0%
55-60	168.6	3.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	2795	63.6%
0-60	4033	91.8%
0-90	4394	100.0%
90-180	0	0.0%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical 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	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329	2329
	5	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300
	10	2237	2237	2237	2237	2237	2237	2237	2237	2237	2237	2237	2237	2237	2237	2237
	15	2156	2156	2156	2156	2156	2156	2156	2156	2156	2156	2156	2156	2156	2156	2156
	20	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063	2063
	25	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964
	30	1866	1866	1866	1866	1866	1866	1866	1866	1866	1866	1866	1866	1866	1866	1866
	35	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724	1724
	40	1451	1451	1451	1451	1451	1451	1451	1451	1451	1451	1451	1451	1451	1451	1451
	45	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089	1089
	50	696	696	696	696	696	696	696	696	696	696	696	696	696	696	696
	55	438	438	438	438	438	438	438	438	438	438	438	438	438	438	438
	60	305	305	305	305	305	305	305	305	305	305	305	305	305	305	305
	65	219	219	219	219	219	219	219	219	219	219	219	219	219	219	219
	70	154	154	154	154	154	154	154	154	154	154	154	154	154	154	154
	75	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
	80	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
	85	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
	90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	95	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
	105	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
	115	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
	125	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
	135	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
	145	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
	155	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
	165	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
	175	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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

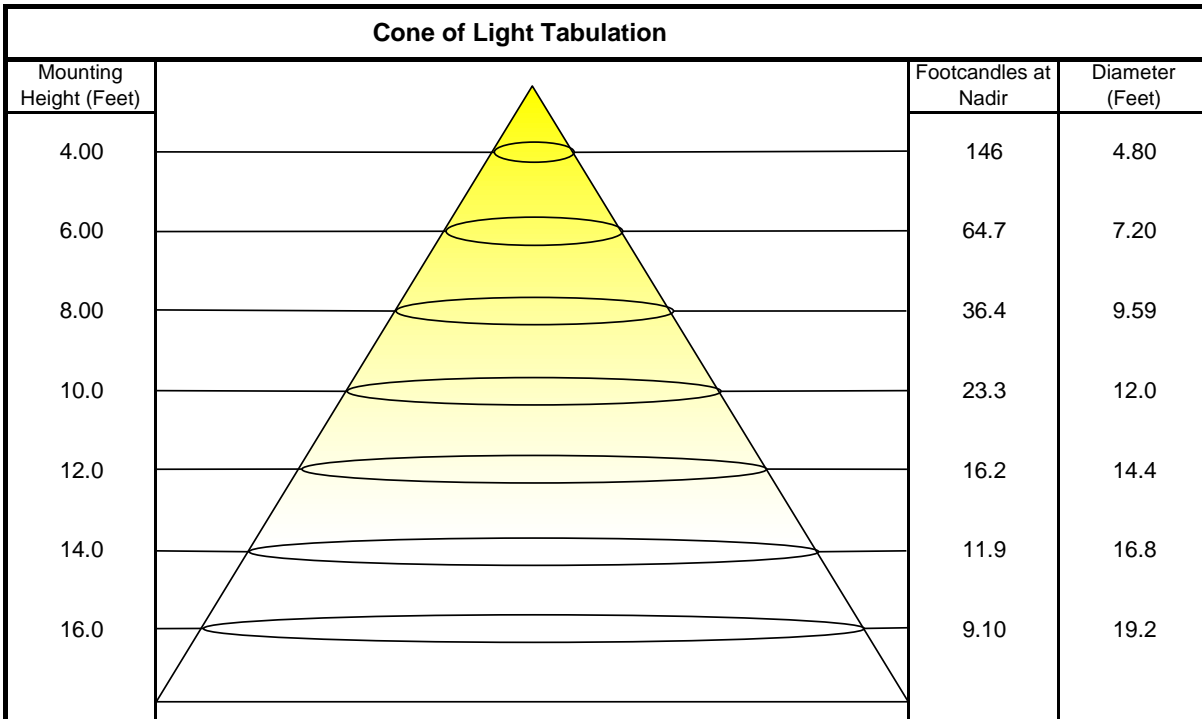
Vertical Angle (Degrees)	0	45	90
	0	151900	151900
	45	100500	100500
	55	49820	49820
	65	33780	33780
	75	26130	26130
	85	19910	19910



Coefficients of Utilization - 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 percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	70	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33

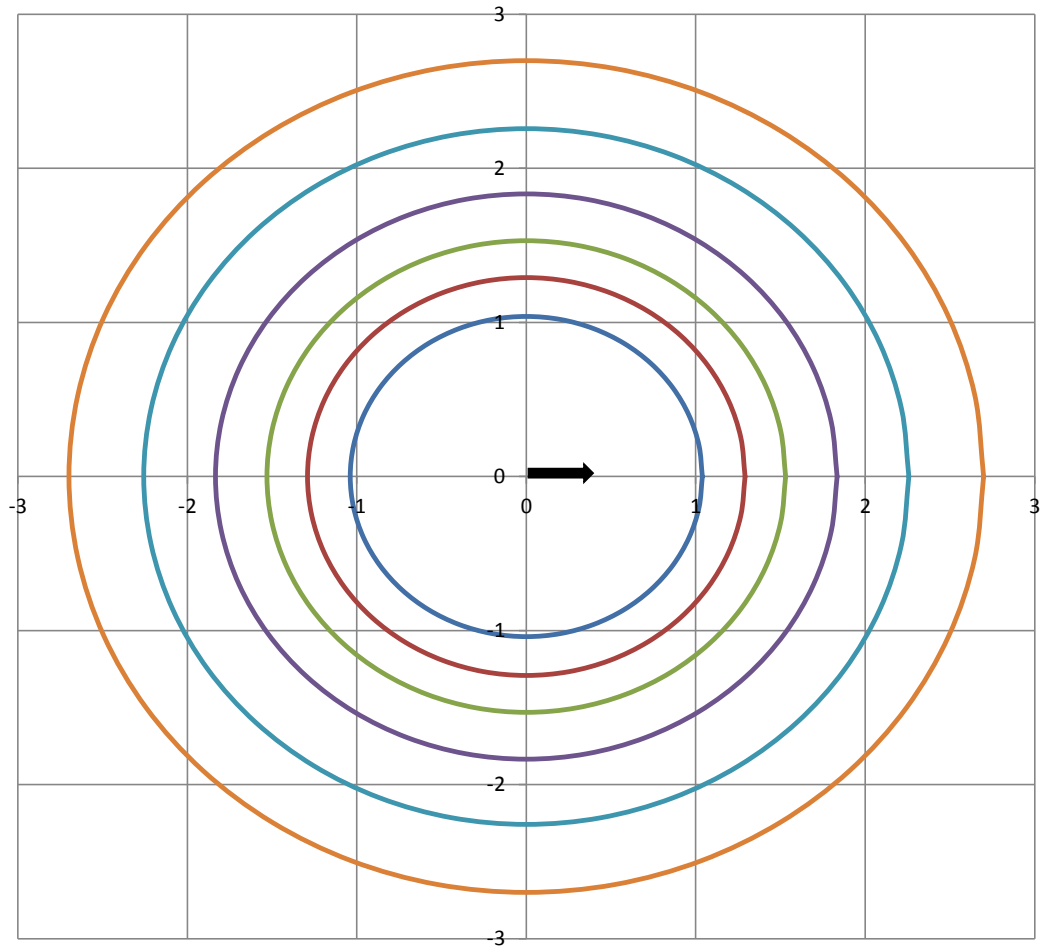
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2329 Candela
Central Cone Intensity:	2317 Candela
Beam Flux:	3183.9 Lumens
Beam Angle (0-180):	88.1 Degrees
Beam Angle (90-270):	88.1 Degrees
Field Angle (0-180):	128.1 Degrees
Field Angle (90-270):	128.1 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

5 fc 2 fc 1 fc 0.5 fc 0.2 fc 0.1 fc