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Indoor Distribution Test Report

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

Prepared For
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United States

Catalog Number
6PR-L40/835-DIM-UNV-L-N-OF-WH
Order Number
12326812
Test Number
12326812.36

Test Date

2018-06-07

Prepared By

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Approved By

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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 plastic optic, 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:	4302 Lumens
Luminaire Efficacy:	97.6 lm/w
Maximum Candela:	10692 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	119.9 VAC
Current:	0.3682 A
Power:	44.07 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.58 %

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



Distribution - Goniophotometer

Distribution Test Conditions

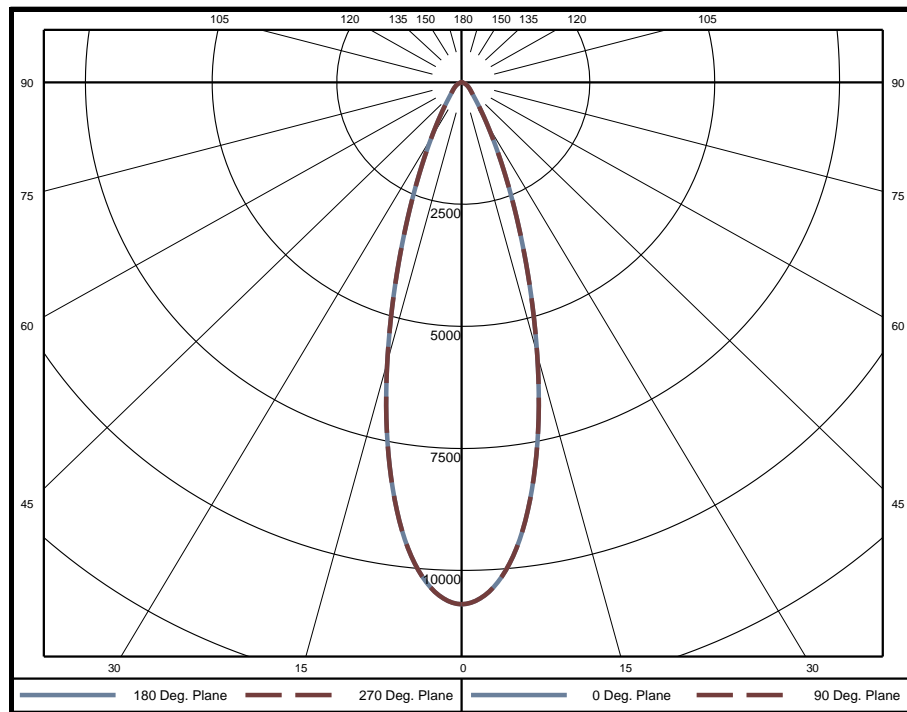
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	119.9 VAC	0.3682 A	44.07 W	0.998	60 Hz	5.58 %

Summary of Results

Spacing Criteria
 0-180: 0.53
 90-270: 0.53

Total Lumen Output: 4302 Lumens
Luminaire Efficacy: 97.6 lm/w
Maximum Candela: 10692 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	247.8	5.8%	60-65	53.2	1.2%	120-125	0	0.0%
5-10	652.5	15.2%	65-70	39.2	0.9%	125-130	0	0.0%
10-15	825.1	19.2%	70-75	26.7	0.6%	130-135	0	0.0%
15-20	750.7	17.5%	75-80	16.6	0.4%	135-140	0	0.0%
20-25	556.0	12.9%	80-85	8.3	0.2%	140-145	0	0.0%
25-30	366.2	8.5%	85-90	1.9	0.0%	145-150	0	0.0%
30-35	234.8	5.5%	90-95	0	0.0%	150-155	0	0.0%
35-40	158.3	3.7%	95-100	0	0.0%	155-160	0	0.0%
40-45	118.3	2.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	97.4	2.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	82.0	1.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	67.4	1.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3791	88.1%
0-60	4157	96.6%
0-90	4302	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	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690	10690
	5	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040	10040
	10	8227	8227	8227	8227	8227	8227	8227	8227	8227	8227	8227	8227	8227	8227	8227
	15	5788	5788	5788	5788	5788	5788	5788	5788	5788	5788	5788	5788	5788	5788	5788
	20	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521	3521
	25	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958	1958
	30	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058
	35	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601
	40	379	379	379	379	379	379	379	379	379	379	379	379	379	379	379
	45	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274
	50	213	213	213	213	213	213	213	213	213	213	213	213	213	213	213
	55	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166
	60	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
	65	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
	70	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
	75	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	80	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	85	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	90	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
	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)

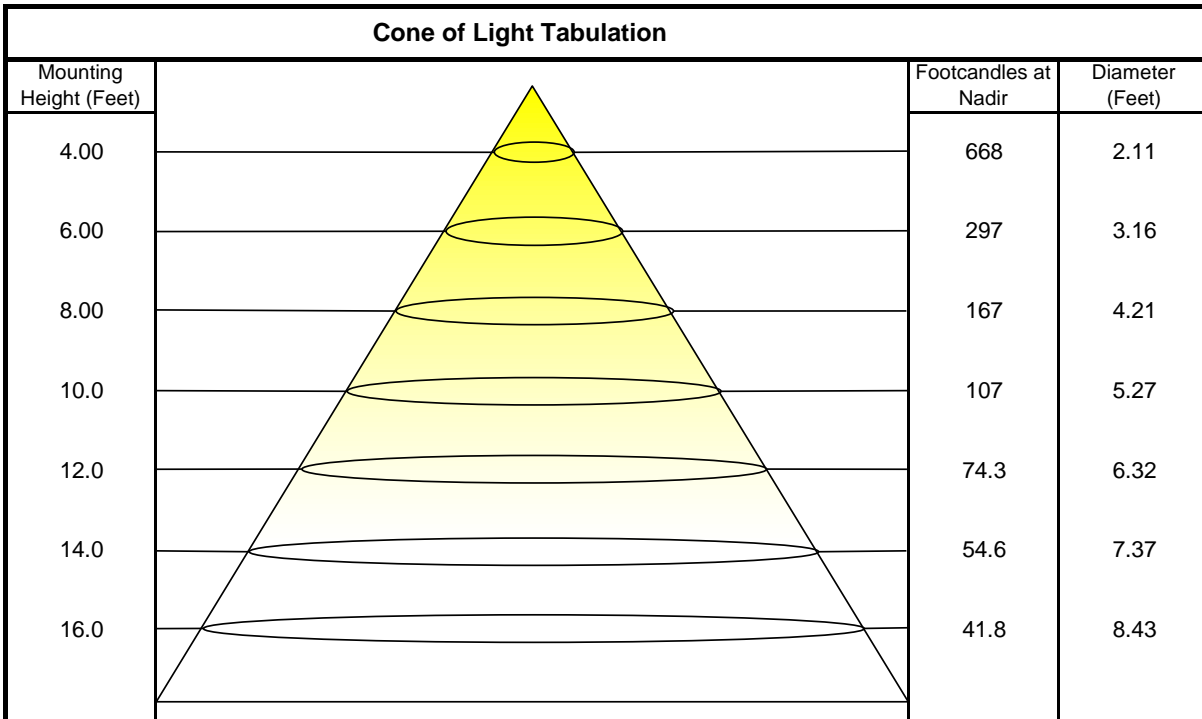
Vertical Angle (Degrees)	0	45	90
	0	697600	697600
	45	25240	25240
	55	18880	18880
	65	14330	14330
	75	10090	10090
	85	6286	6286



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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	99	92	87	83	97	91	86	82	88	84	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	75	71	68	67
8	84	75	70	66	83	75	69	66	74	69	66	73	68	65	72	68	65	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

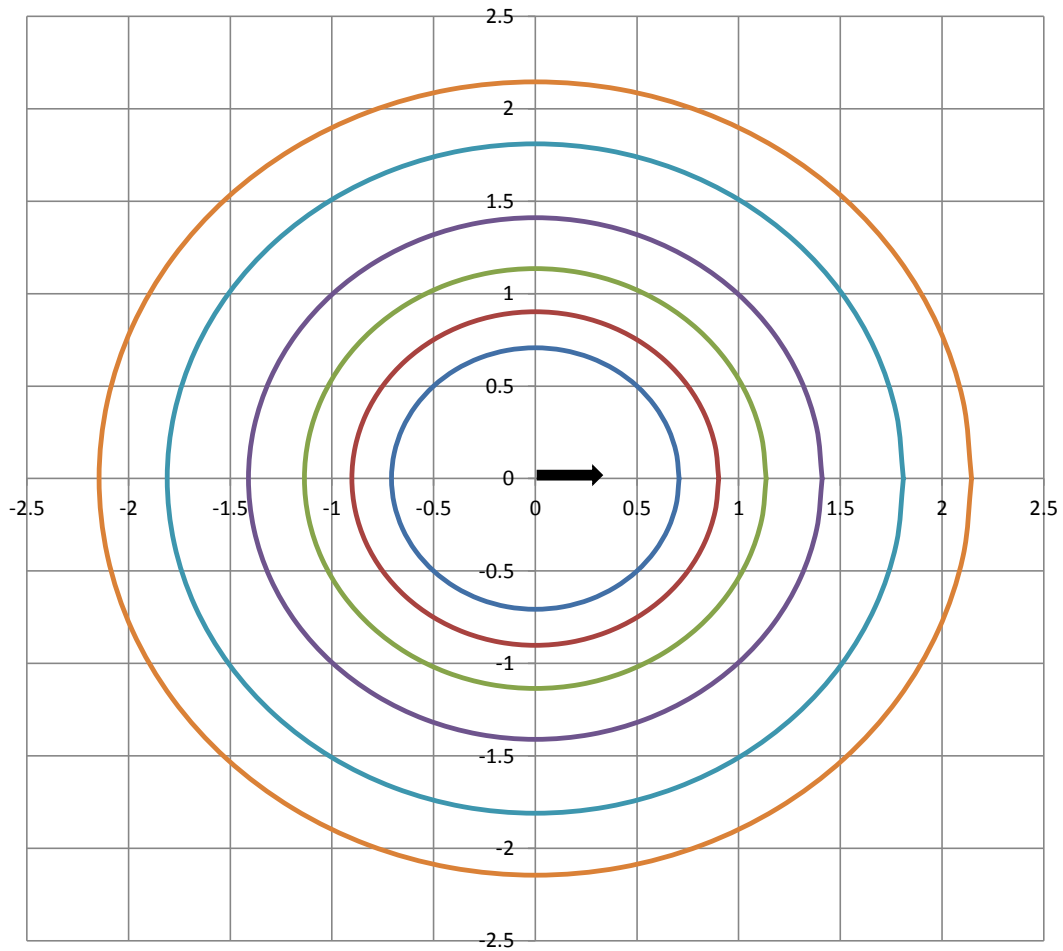
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	10690 Candela
Central Cone Intensity:	10457 Candela
Beam Flux:	1862.6 Lumens
Beam Angle (0-180):	31.8 Degrees
Beam Angle (90-270):	31.8 Degrees
Field Angle (0-180):	59.8 Degrees
Field Angle (90-270):	59.8 Degrees





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