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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
6DR-L20/835-DIM-UNV-R-M-OF-WH
Order Number
12326812
Test Number
12326812.14

Test Date

2018-06-06

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, frosted plastic optic, clear glass patterned lens enclosure
Lamp: One white LED
Mounting: Recessed
Ballast/Driver: Philips XI025C070V054DSM5

Luminaire



Luminaire Characteristics

Luminous Diameter: 5.75 in.

Summary of Results

Total Luminaire Output:	1782 Lumens
Luminaire Efficacy:	93.3 lm/w
Maximum Candela:	4313 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1601 A
Power:	19.09 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	9.68 %

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



Distribution - Goniophotometer

Distribution Test Conditions

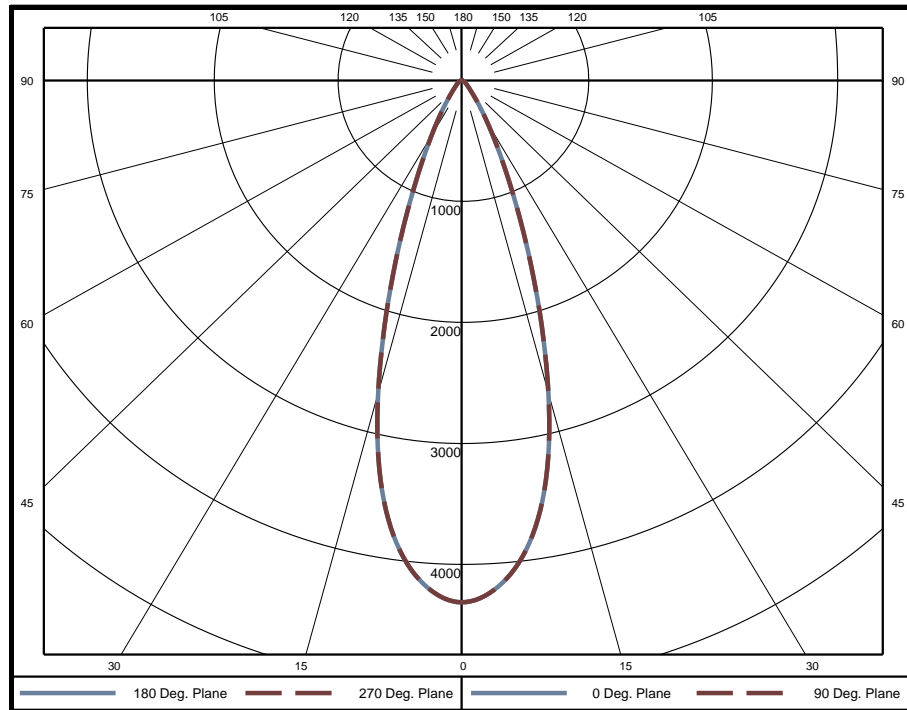
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1601 A	19.09 W	0.994	60 Hz	9.68 %

Summary of Results

Spacing Criteria
 0-180: 0.58
 90-270: 0.58

Total Lumen Output: 1782 Lumens
Luminaire Efficacy: 93.3 lm/w
Maximum Candela: 4313 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	100.9	5.7%	60-65	13.1	0.7%	120-125	0	0.0%
5-10	277.2	15.6%	65-70	9.5	0.5%	125-130	0	0.0%
10-15	372.7	20.9%	70-75	6.3	0.4%	130-135	0	0.0%
15-20	346.2	19.4%	75-80	4.1	0.2%	135-140	0	0.0%
20-25	247.5	13.9%	80-85	2.3	0.1%	140-145	0	0.0%
25-30	155.0	8.7%	85-90	0.8	0.0%	145-150	0	0.0%
30-35	93.2	5.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	54.9	3.1%	95-100	0	0.0%	155-160	0	0.0%
40-45	35.1	2.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	25.8	1.4%	105-110	0	0.0%	165-170	0	0.0%
50-55	20.6	1.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	16.7	0.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1648	92.5%
0-60	1746	98.0%
0-90	1782	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	4313	4313	4313	4313	4313	4313	4313	4313	4313	4313	4313	4313	4313	4313	4313
	5	4131	4131	4131	4131	4131	4131	4131	4131	4131	4131	4131	4131	4131	4131	4131
	10	3607	3607	3607	3607	3607	3607	3607	3607	3607	3607	3607	3607	3607	3607	3607
	15	2669	2669	2669	2669	2669	2669	2669	2669	2669	2669	2669	2669	2669	2669	2669
	20	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605	1605
	25	846	846	846	846	846	846	846	846	846	846	846	846	846	846	846
	30	436	436	436	436	436	436	436	436	436	436	436	436	436	436	436
	35	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225
	40	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
	45	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
	50	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
	55	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
	60	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
	65	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	70	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	75	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	80	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	85	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	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)

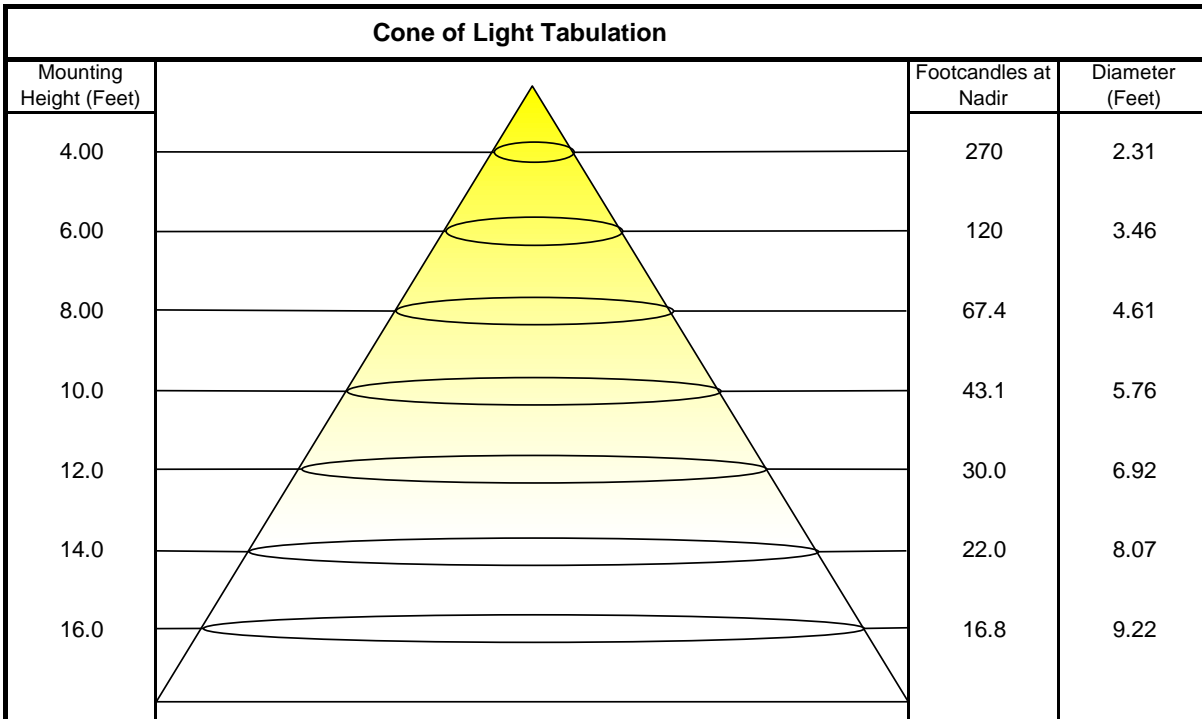
Vertical Angle (Degrees)	0	45	90
	0	257500	257500
	45	6406	6406
	55	4310	4310
	65	3207	3207
	75	2208	2208
	85	1872	1872



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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70
8	86	77	72	69	85	77	72	69	76	72	68	75	71	68	74	71	68	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	65	71	68	65	64
10	80	71	67	63	79	71	66	63	70	66	63	70	66	63	69	65	63	62

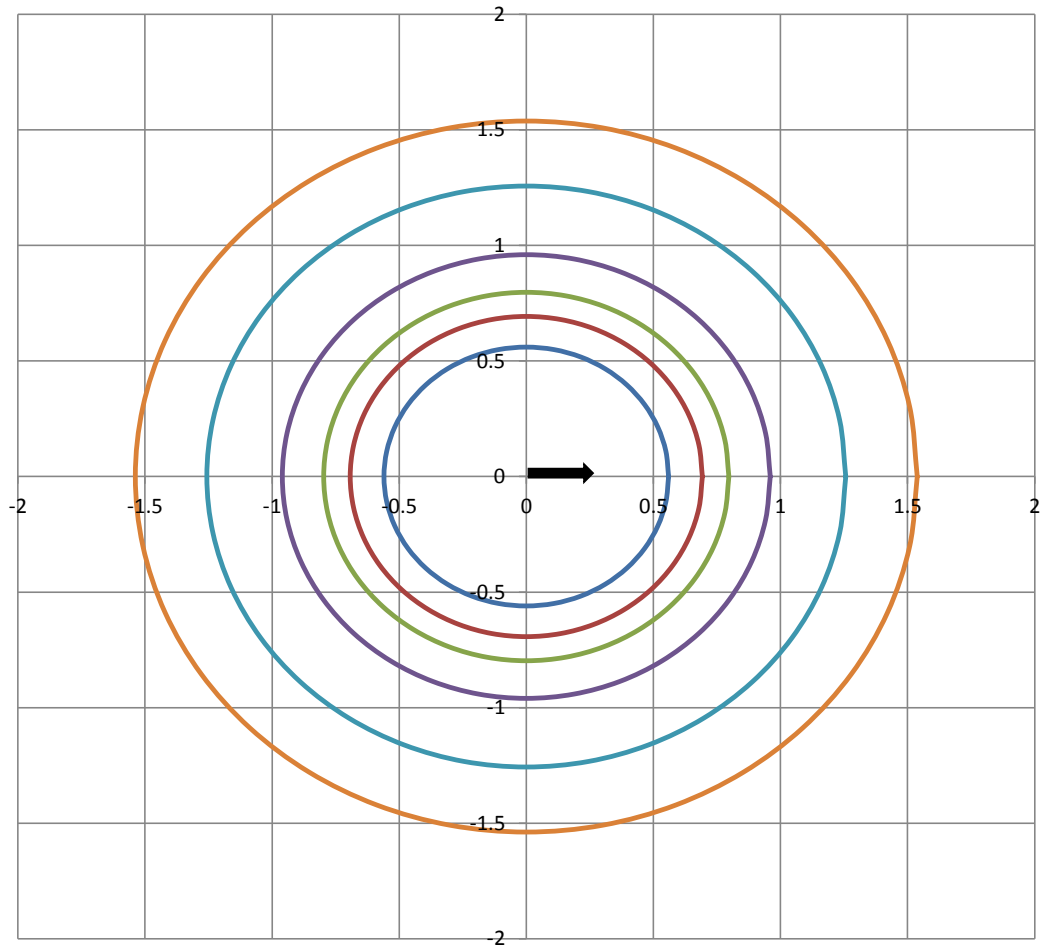
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	4313 Candela
Central Cone Intensity:	4247 Candela
Beam Flux:	922.8 Lumens
Beam Angle (0-180):	34.6 Degrees
Beam Angle (90-270):	34.6 Degrees
Field Angle (0-180):	60.2 Degrees
Field Angle (90-270):	60.2 Degrees





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