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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-L-M-OF-WH
Order Number
12326812
Test Number
12326812.09

Test Date

2018-06-05

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: 5.50 in.

Summary of Results

Total Luminaire Output:	1837 Lumens
Luminaire Efficacy:	96.1 lm/w
Maximum Candela:	4338 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1602 A
Power:	19.11 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	9.67 %

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



Distribution - Goniophotometer

Distribution Test Conditions

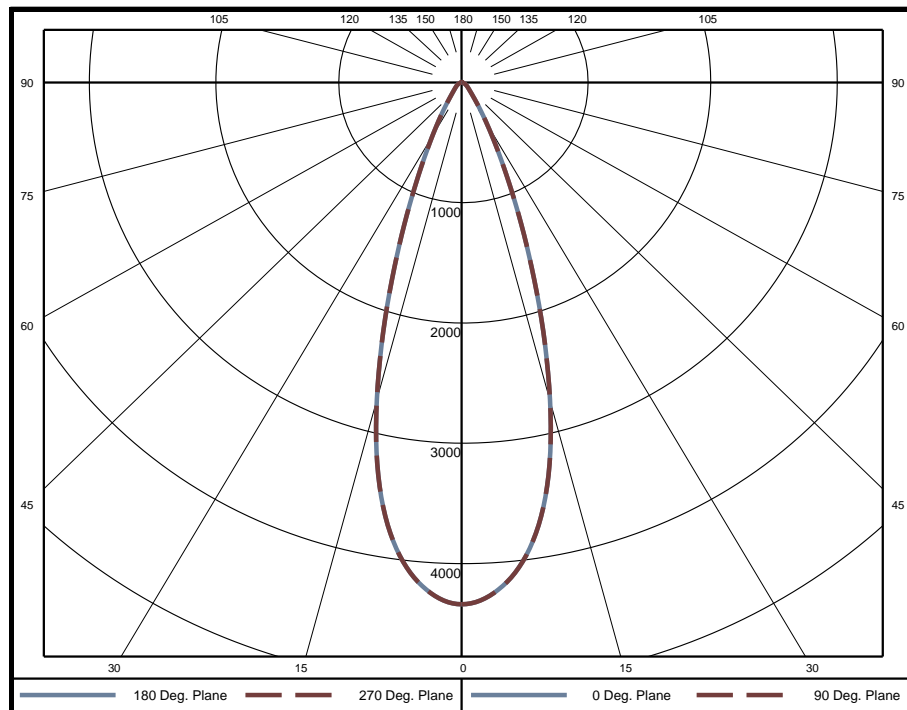
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1602 A	19.11 W	0.994	60 Hz	9.67 %

Summary of Results

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

Total Lumen Output: 1837 Lumens
Luminaire Efficacy: 96.1 lm/w
Maximum Candela: 4338 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	101.7	5.5%	60-65	17.7	1.0%	120-125	0	0.0%
5-10	280.5	15.3%	65-70	13.9	0.8%	125-130	0	0.0%
10-15	379.7	20.7%	70-75	10.1	0.5%	130-135	0	0.0%
15-20	354.3	19.3%	75-80	6.6	0.4%	135-140	0	0.0%
20-25	250.9	13.7%	80-85	3.4	0.2%	140-145	0	0.0%
25-30	152.9	8.3%	85-90	0.9	0.0%	145-150	0	0.0%
30-35	90.8	4.9%	90-95	0	0.0%	150-155	0	0.0%
35-40	56.0	3.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	39.3	2.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	31.2	1.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	25.9	1.4%	110-115	0	0.0%	170-175	0	0.0%
55-60	21.6	1.2%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1667	90.7%
0-60	1785	97.2%
0-90	1837	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	4338	4338	4338	4338	4338	4338	4338	4338	4338	4338	4338	4338	4338	4338	4338
	5	4168	4168	4168	4168	4168	4168	4168	4168	4168	4168	4168	4168	4168	4168	4168
	10	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661	3661
	15	2728	2728	2728	2728	2728	2728	2728	2728	2728	2728	2728	2728	2728	2728	2728
	20	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638
	25	847	847	847	847	847	847	847	847	847	847	847	847	847	847	847
	30	425	425	425	425	425	425	425	425	425	425	425	425	425	425	425
	35	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222
	40	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
	45	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
	50	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
	55	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	60	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
	65	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
	70	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	80	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	85	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	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)

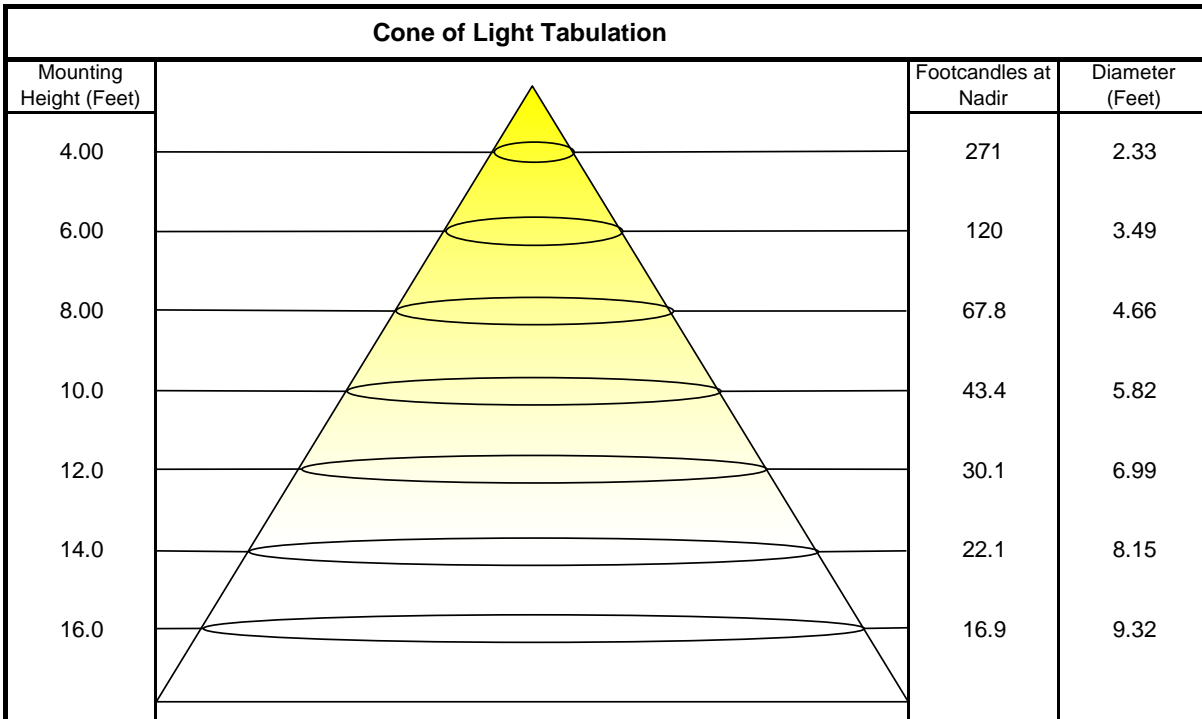
Vertical Angle (Degrees)	0	45	90
	0	283000	283000
	45	8204	8204
	55	6002	6002
	65	4897	4897
	75	3972	3972
	85	2630	2630



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

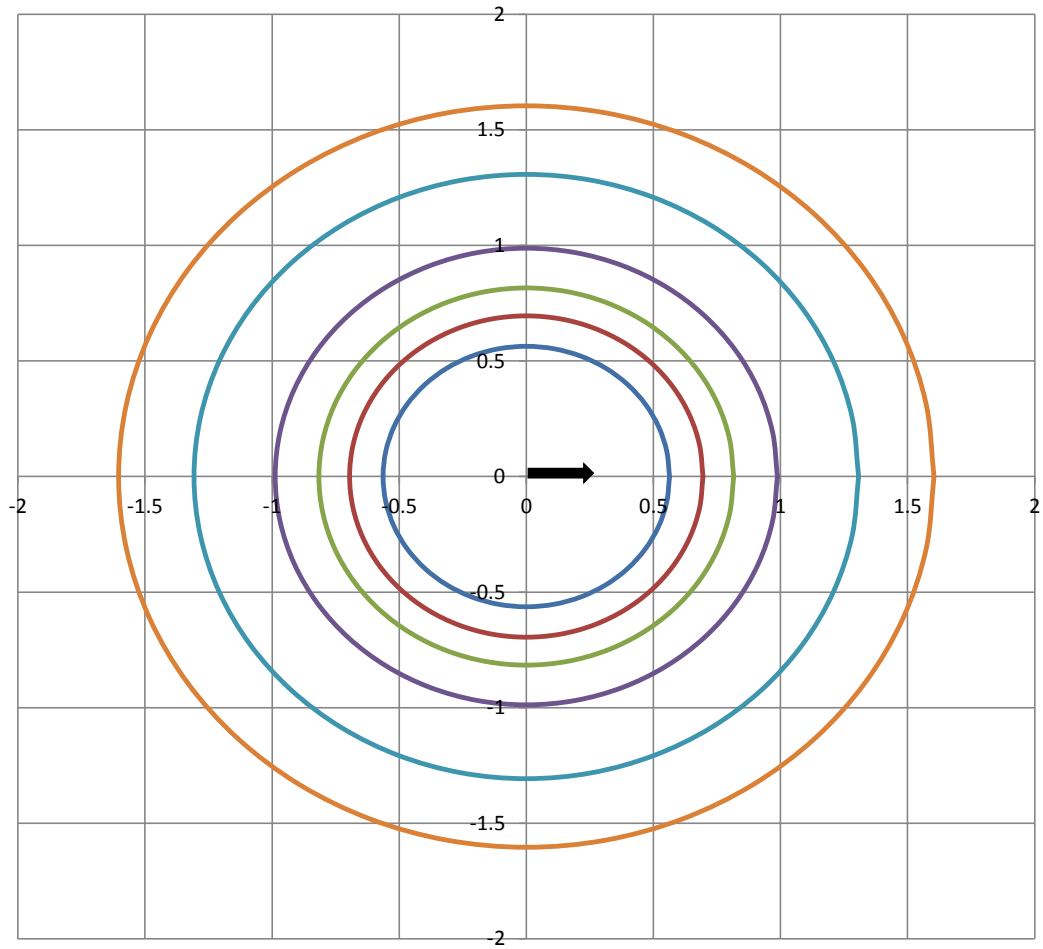
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	4338 Candela
Central Cone Intensity:	4277 Candela
Beam Flux:	952.3 Lumens
Beam Angle (0-180):	35.0 Degrees
Beam Angle (90-270):	35.0 Degrees
Field Angle (0-180):	59.7 Degrees
Field Angle (90-270):	59.7 Degrees





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