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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-10-2014

Prepared For
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United States

Catalog Number
2DR-L12-835-DIM-UNV-OS-OF-CS
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13255206
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Prepared By

Javier Caban, Technician

Approved By

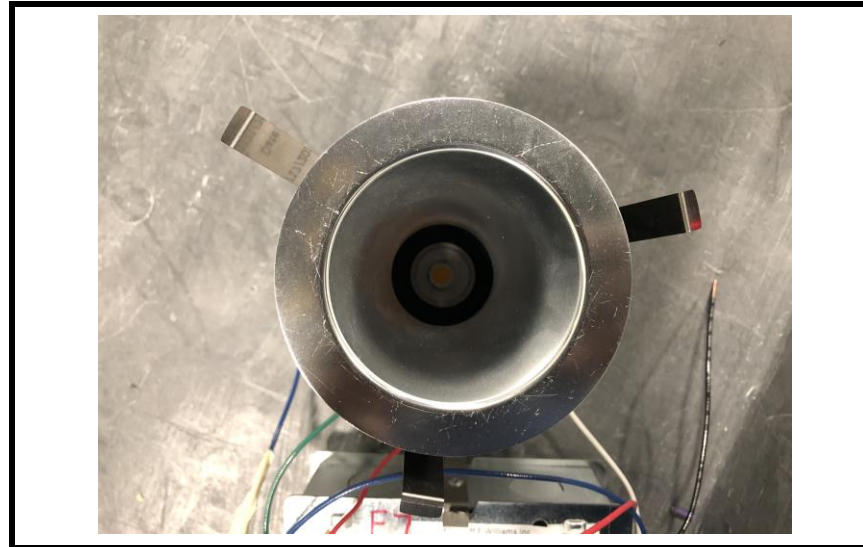
Alexa Lambert, Project Handler

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Luminaire Description: Aluminum housing and reflector, no enclosure
Lamp: One white LED
Mounting: Recessed
Ballast/Driver: One Philips Advance XI025C070V054DSM1 Driver

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.50 in.

Summary of Results

Total Luminaire Output:	1071 Lumens
Luminaire Efficacy:	52.4 lm/w
Maximum Candela:	20883 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1708 A
Power:	20.42 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	9.12 %

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	0.1708 A	20.42 W	0.994	60 Hz	9.12 %

Summary of Results

Spacing Criteria

0-180: 0.14

90-270: 0.14

Total Lumen Output:

1071 Lumens

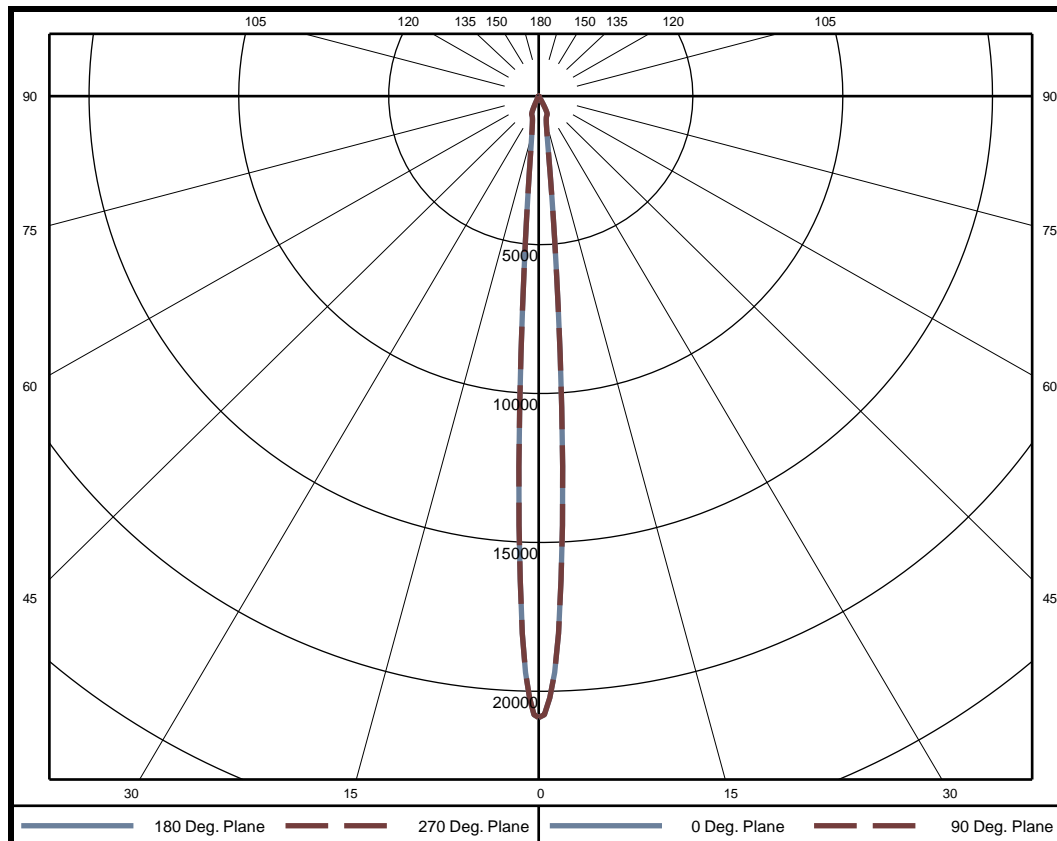
Luminaire Efficacy:

52.4 lm/w

Maximum Candela:

20883 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	311.5	29.1%	60-65	0.6	0.1%	120-125	0	0.0%
5-10	225.3	21.0%	65-70	0.4	0.0%	125-130	0	0.0%
10-15	142.6	13.3%	70-75	0.2	0.0%	130-135	0	0.0%
15-20	132.6	12.4%	75-80	0.1	0.0%	135-140	0	0.0%
20-25	143.3	13.4%	80-85	0.0	0.0%	140-145	0	0.0%
25-30	87.9	8.2%	85-90	0.0	0.0%	145-150	0	0.0%
30-35	10.6	1.0%	90-95	0	0.0%	150-155	0	0.0%
35-40	6.4	0.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	4.6	0.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	2.7	0.3%	105-110	0	0.0%	165-170	0	0.0%
50-55	1.6	0.1%	110-115	0	0.0%	170-175	0	0.0%
55-60	1.0	0.1%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1060	99.0%
0-60	1070	99.9%
0-90	1071	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	20880	20880	20880	20880	20880	20880	20880	20880	20880	20880	20880	20880	20880	20880	20880
	5	7108	7108	7108	7108	7108	7108	7108	7108	7108	7108	7108	7108	7108	7108	7108
	10	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683	1683
	15	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936
	20	726	726	726	726	726	726	726	726	726	726	726	726	726	726	726
	25	618	618	618	618	618	618	618	618	618	618	618	618	618	618	618
	30	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	40	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	45	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	50	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	55	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	60	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	65	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	70	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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)

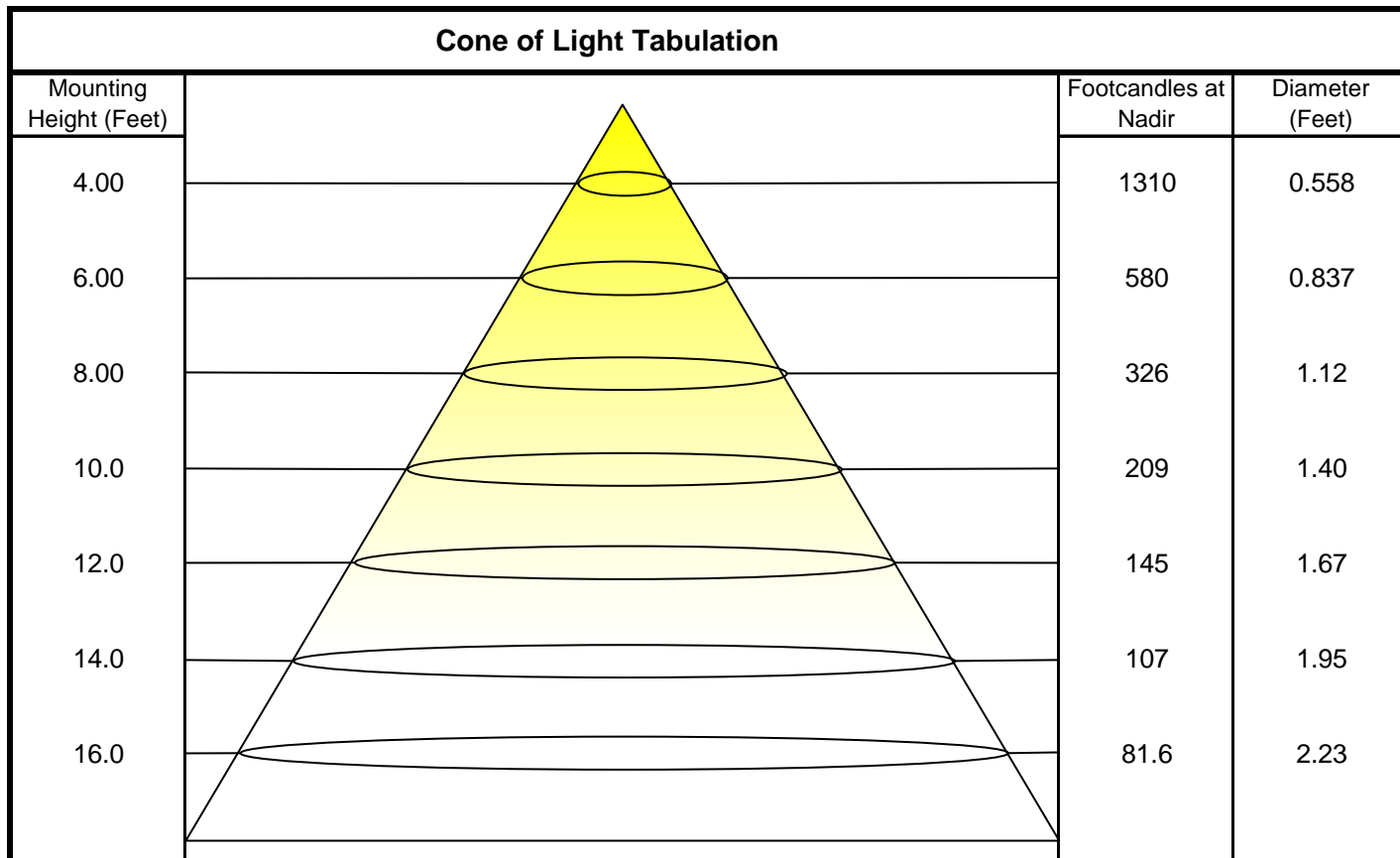
Vertical Angle (Degrees)	0	45	90
	0	6594000	6594000
	45	4251	4251
	55	1580	1580
	65	675	675
	75	287	287
	85	211	211



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	115	113	111	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94
3	109	104	101	98	107	103	100	97	101	98	96	98	96	94	96	95	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	93	92	94	92	91	89
5	103	97	94	91	101	97	93	90	95	92	90	94	91	89	92	90	88	87
6	100	94	91	88	99	94	90	88	93	89	87	91	89	87	90	88	86	85
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83
8	96	89	86	83	95	89	85	83	88	85	83	87	84	82	87	84	82	81
9	93	87	84	81	93	87	83	81	86	83	81	85	83	81	85	82	80	79
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78

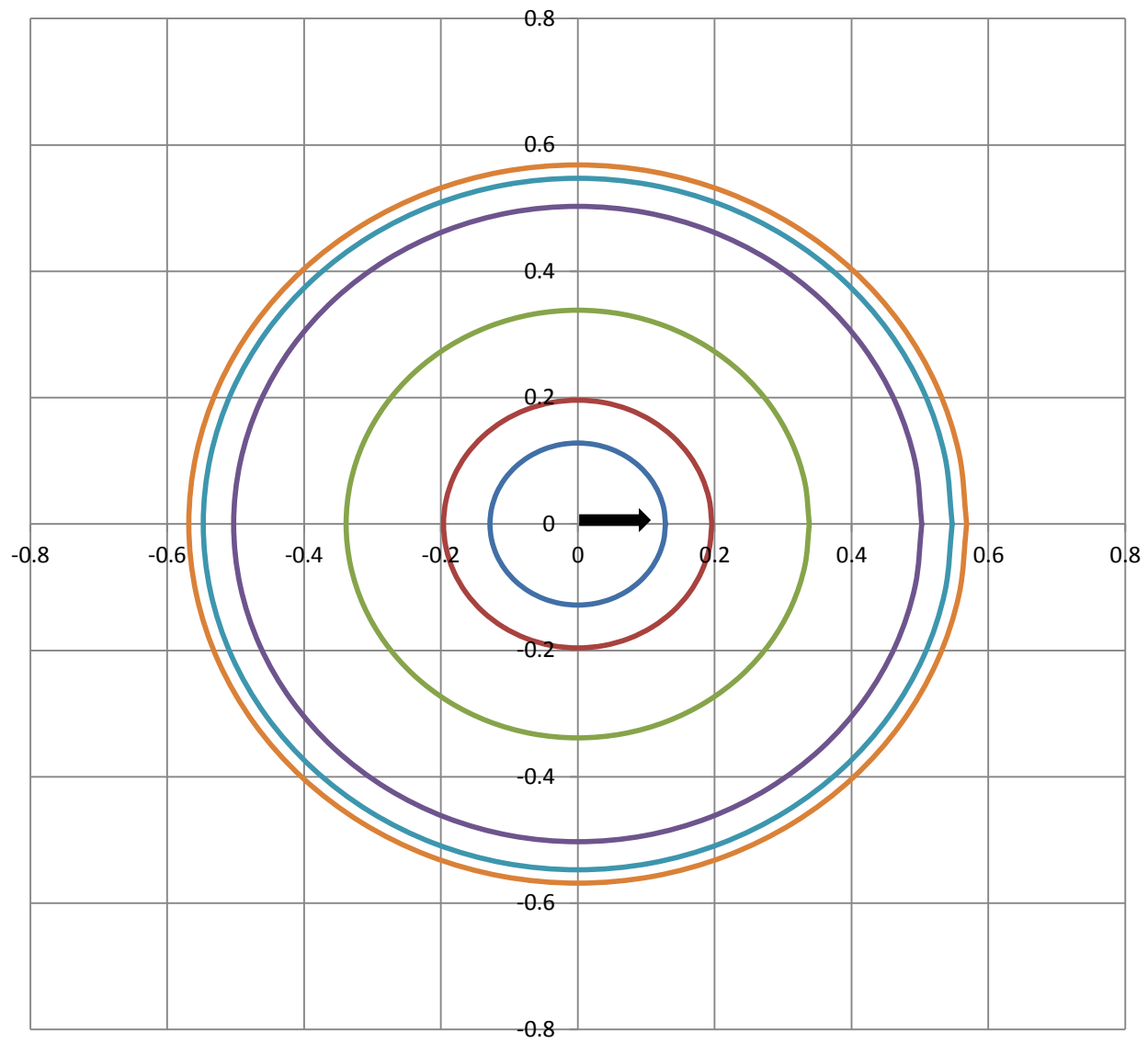
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	20880 Candela
Central Cone Intensity:	19267 Candela
Beam Flux:	238.7 Lumens
Beam Angle (0-180):	8.0 Degrees
Beam Angle (90-270):	8.0 Degrees
Field Angle (0-180):	17.8 Degrees
Field Angle (90-270):	17.8 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

