



UL LLC
1075 W Lambert Rd Suite B
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Indoor Distribution Test Report

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

Prepared For
Lux Dynamics

Andy Munter
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Catalog Number
360P-2-D-835-xxx-xx-CA

Order Number
13551818
Test Number
13551818.01

Test Date

2020-11-04

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Gray cylindrical metal housing with diffuse plastic lens
Lamp: White 306 LEDs
Mounting: Pendant
Ballast/Driver: One (1) OSRAM OPTOTRONIC OTi 85/120-277/2A3 DIM L HB

Luminaire



Luminaire Characteristics

Luminous Length: 23.00 in.
Luminous Width: 4.500 in.
Luminous Height: 0.75 in.

Summary of Results

Total Luminaire Output: 7535 Lumens
Luminaire Efficacy: 141.8 lm/w
Maximum Candela: 2678 Candela

Test Conditions

Test Temperature: 24.8 °C
Voltage: 277.0 VAC
Current: 0.2013 A
Power: 53.13 W
Power Factor: 0.953
Frequency: 60 Hz
Current THD: 12.9 %

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



Distribution - Goniophotometer

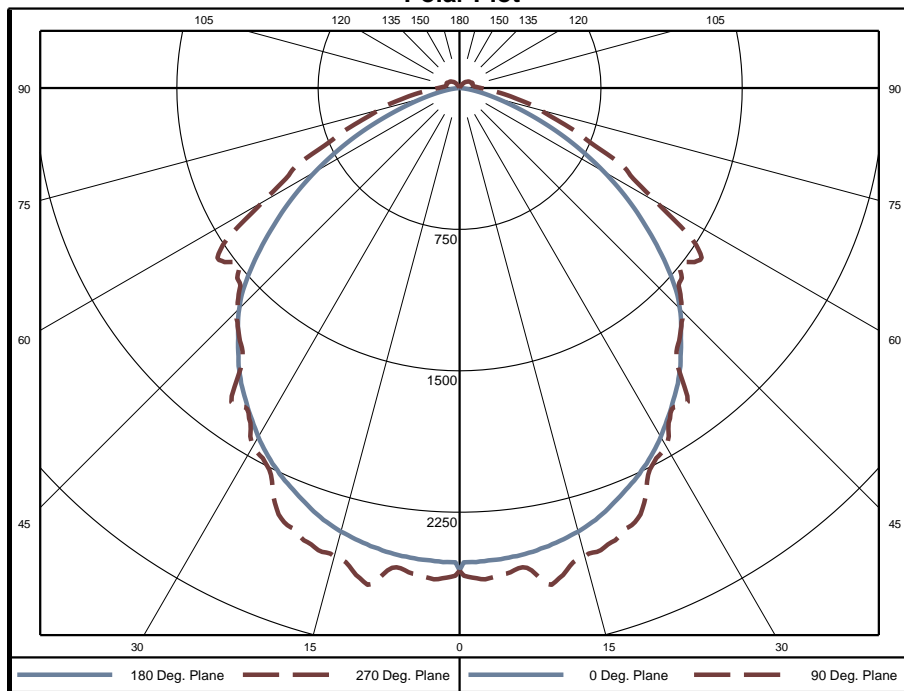
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	277.0 VAC	0.2013 A	53.13 W	0.953	60 Hz	12.9 %

Summary of Results

Spacing Criteria	Total Lumen Output:	7535 Lumens
0-180: 1.24	Luminaire Efficacy:	141.8 lm/w
90-270: 1.25	Maximum Candela:	2678 Candela
Corrected UGR (Room Dimension: X=4H, Y=8H, Reflectances: 70/50/20%, S/H: 1)		
Crosswise: 25.5	Endwise: 26	

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	61.6	0.8%	60-65	474.6	6.3%	120-125	21.0	0.3%
5-10	183.3	2.4%	65-70	377.4	5.0%	125-130	16.2	0.2%
10-15	304.2	4.0%	70-75	276.9	3.7%	130-135	11.9	0.2%
15-20	412.3	5.5%	75-80	189.0	2.5%	135-140	8.3	0.1%
20-25	507.3	6.7%	80-85	121.4	1.6%	140-145	5.4	0.1%
25-30	580.3	7.7%	85-90	75.1	1.0%	145-150	3.0	0.0%
30-35	626.4	8.3%	90-95	50.6	0.7%	150-155	1.3	0.0%
35-40	653.2	8.7%	95-100	38.1	0.5%	155-160	0.5	0.0%
40-45	645.9	8.6%	100-105	33.2	0.4%	160-165	0.1	0.0%
45-50	626.6	8.3%	105-110	31.2	0.4%	165-170	0.0	0.0%
50-55	591.7	7.9%	110-115	28.9	0.4%	170-175	0	0.0%
55-60	552.9	7.3%	115-120	25.4	0.3%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3329	44.2%
0-60	5746	76.3%
0-90	7260	96.4%
90-180	275	3.7%



Candela Tabulation
Horizontal 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	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559	2559
5	2510	2573	2593	2585	2588	2585	2593	2573	2510	2573	2593	2585	2588	2585	2593	2573
10	2481	2562	2536	2615	2670	2615	2536	2562	2481	2562	2536	2615	2670	2615	2536	2562
15	2436	2485	2621	2562	2570	2562	2621	2485	2436	2485	2621	2562	2570	2562	2621	2485
20	2356	2414	2485	2511	2506	2511	2485	2414	2356	2414	2485	2511	2506	2511	2485	2414
25	2260	2393	2390	2400	2345	2400	2390	2393	2260	2393	2390	2400	2345	2400	2390	2393
30	2137	2288	2244	2175	2186	2175	2244	2288	2137	2288	2244	2175	2186	2175	2244	2288
35	1992	2080	2050	2012	2055	2012	2050	2080	1992	2080	2050	2012	2055	2012	2050	2080
40	1828	1887	1863	1832	1795	1832	1863	1887	1828	1887	1863	1832	1795	1832	1863	1887
45	1654	1663	1655	1619	1663	1619	1655	1663	1654	1663	1655	1619	1663	1619	1655	1663
50	1418	1451	1392	1468	1535	1468	1392	1451	1418	1451	1392	1468	1535	1468	1392	1451
55	1151	1212	1154	1443	1567	1443	1154	1212	1151	1212	1154	1443	1567	1443	1154	1212
60	882	956	1037	1295	1204	1295	1037	956	882	956	1037	1295	1204	1295	1037	956
65	615	735	1006	969	931	969	1006	735	615	735	1006	969	931	969	1006	735
70	366	542	797	676	639	676	797	542	366	542	797	676	639	676	797	542
75	189	403	554	458	448	458	554	403	189	403	554	458	448	458	554	403
80	80	258	364	315	298	315	364	258	80	258	364	315	298	315	364	258
85	18	139	244	209	187	209	244	139	18	139	244	209	187	209	244	139
90	0	73	167	136	121	136	167	73	0	73	167	136	121	136	167	73
95	0	53	124	95	88	95	124	53	0	53	124	95	88	95	124	53
100	0	50	94	75	75	75	94	50	0	50	94	75	75	75	94	50
105	0	53	82	72	71	72	82	53	0	53	82	72	71	72	82	53
110	0	49	76	74	73	74	76	49	0	49	76	74	73	74	76	49
115	0	40	75	69	71	69	75	40	0	40	75	69	71	69	75	40
120	0	29	69	66	65	66	69	29	0	29	69	66	65	66	69	29
125	0	18	55	62	62	62	55	18	0	18	55	62	62	62	55	18
130	0	9	42	53	56	53	42	9	0	9	42	53	56	53	42	9
135	0	3	31	46	48	46	31	3	0	3	31	46	48	46	31	3
140	0	1	21	35	41	35	21	1	0	1	21	35	41	35	21	1
145	0	0	12	25	30	25	12	0	0	0	12	25	30	25	12	0
150	0	0	6	15	17	15	6	0	0	0	6	15	17	15	6	0
155	0	0	2	7	9	7	2	0	0	0	2	7	9	7	2	0
160	0	0	1	3	4	3	1	0	0	0	1	3	4	3	1	0
165	0	0	0	1	1	1	0	0	0	0	0	1	1	1	0	0
170	0	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	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	38320	38320	38320
45	33920	30720	30200
55	28730	25090	33040
65	20370	27380	24300
75	9727	21010	15960
85	2272	16090	11070

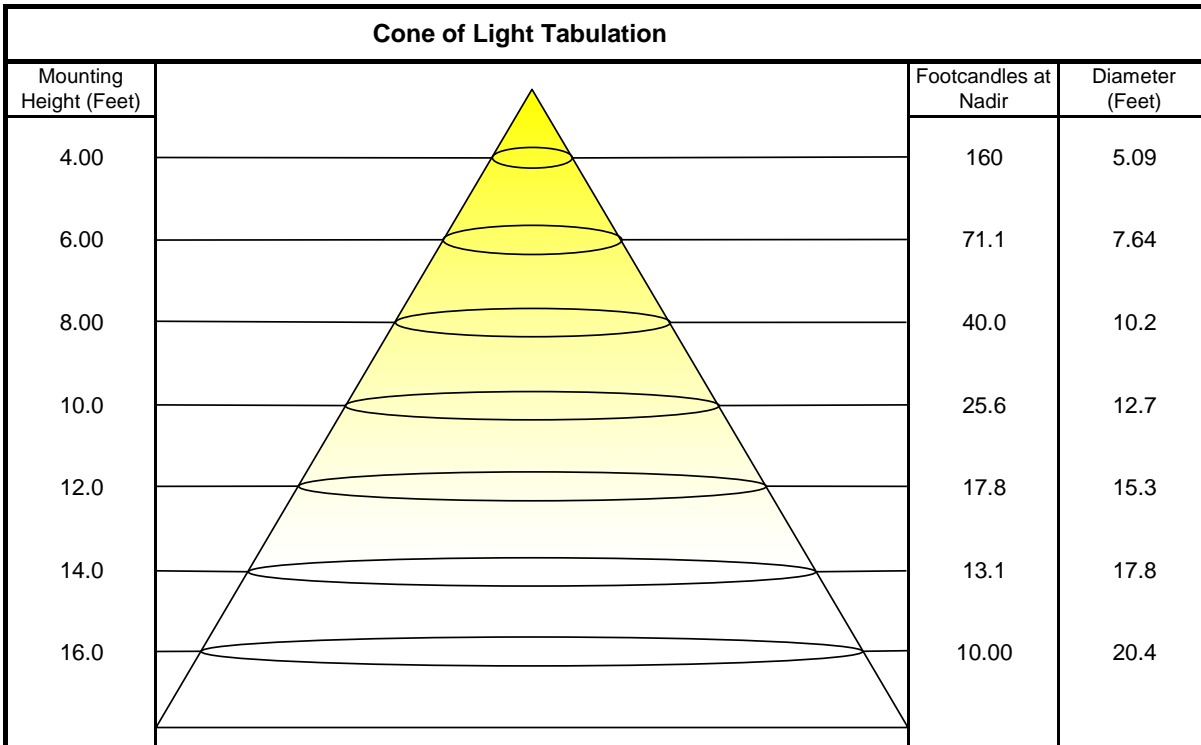


Coefficients of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	103	99	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	90	83	77	95	88	81	76	83	78	74	80	75	72	76	73	69	67
3	89	79	71	64	87	77	70	64	74	67	62	70	65	60	67	63	59	57
4	82	70	61	55	79	68	60	54	66	58	53	63	57	52	60	55	51	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	49	44	42
6	70	56	48	41	68	55	47	41	53	46	40	51	45	40	49	43	39	37
7	65	51	42	36	63	50	42	36	48	41	36	47	40	35	45	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	35	30	25	24

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2559 Candela
Central Cone Intensity:	2571 Candela
Beam Flux:	5290.7 Lumens
Beam Angle (0-180):	105.1 Degrees
Beam Angle (90-270):	118.1 Degrees
Field Angle (0-180):	145.7 Degrees
Field Angle (90-270):	163.6 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

