



UL Verification Services
7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300



Photometric Indoor Test Report

Relevant Standards

IES LM-79-2008

ANSI C82.77-2002

Prepared For

Sonneman

Nicholas Carmichael

106 Pierces Road, PO BOX 7458

Newburgh, NY 12550-9369

Catalog Number

Corona 6" LED Pendant

Project Number

10060194

Test Number

309190

Test Date

2013-09-04

Prepared By

A handwritten signature in black ink, appearing to read 'Kyle Spaziani'.

Kyle Spaziani, Project Coordinator

Approved By

A handwritten signature in black ink, appearing to read 'Zachary Mooney'.

Zachary Mooney, Engineering Associate

The results contained in this report pertain only to the tested sample.

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Luminaire Description: Cast gray enamel steel housing, frosted plastic
Catalog Number: Corona 6" LED Pendant
Lamp: 108 white LEDs
Mounting: Pendant
Ballast/Driver: One ES LD012D-CA03536-26

Luminaire



Test Conditions

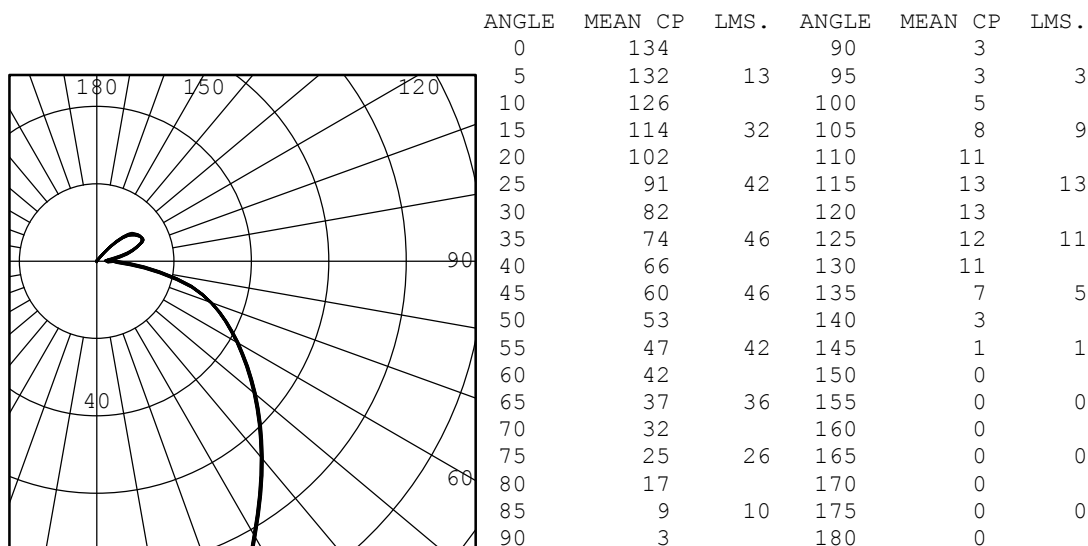
Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.07506 A
Power:	8.070 W
Power Factor:	0.896
Frequency:	60 Hz
Current THD:	26.2 %



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INTENSITY (CANDLEPOWER) SUMMARY



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	86	25.78
0-40	132	39.53
0-60	221	65.91
0-90	293	87.57
40-90	161	48.04
60-90	73	21.65
90-180	42	12.43
0-180	335	100.00

EFFICACY (LUMENS PER WATT): 41.4

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 31.380 INS
 WIDTH: 0.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.9
 SC: 0.9

ANGLE	MEAN CD/SQ M
45	8346
55	5735
65	4028
75	2608
85	875

TESTED IN ACCORDANCE WITH IES PROCEDURES.

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INTENSITY (CANDLEPOWER) DATA

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0	134	
5	132	13
10	126	
15	114	32
20	102	
25	91	42
30	82	
35	74	46
40	66	
45	60	46
50	53	
55	47	42
60	42	
65	37	36
70	32	
75	25	26
80	17	
85	9	10
90	3	
95	3	3
100	5	
105	8	9
110	11	
115	13	13
120	13	
125	12	11
130	11	
135	7	5
140	3	
145	1	1
150	0	
155	0	0
160	0	
165	0	0
170	0	
175	0	0
180	0	



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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.201	1.201	1.201	1.20	1.161	1.161	1.161	1.16	1.121	1.121	1.121	1.12	1.041	1.041	1.04	0.970	0.970	0.97	0.910	0.910	0.91	0.88			
1	1.101	1.051	1.000	0.96	1.061	1.010	0.970	0.93	1.020	0.980	0.940	0.90	0.910	0.880	0.86	0.850	0.830	0.81	0.800	0.780	0.76	0.73			
2	1.000	0.920	0.850	0.79	0.970	0.890	0.830	0.77	0.930	0.860	0.800	0.75	0.810	0.760	0.72	0.760	0.720	0.68	0.710	0.680	0.65	0.62			
3	0.920	0.810	0.730	0.66	0.890	0.790	0.710	0.65	0.850	0.760	0.690	0.64	0.720	0.660	0.61	0.670	0.620	0.58	0.630	0.590	0.56	0.53			
4	0.850	0.730	0.640	0.57	0.820	0.710	0.620	0.56	0.790	0.690	0.610	0.55	0.650	0.580	0.53	0.610	0.550	0.51	0.570	0.530	0.49	0.47			
5	0.790	0.650	0.560	0.49	0.760	0.630	0.550	0.49	0.720	0.620	0.540	0.48	0.580	0.510	0.46	0.550	0.490	0.45	0.520	0.470	0.43	0.41			
6	0.730	0.590	0.500	0.44	0.700	0.570	0.490	0.43	0.670	0.560	0.480	0.42	0.520	0.460	0.41	0.500	0.440	0.39	0.470	0.420	0.38	0.36			
7	0.670	0.530	0.440	0.38	0.640	0.520	0.430	0.38	0.620	0.500	0.420	0.37	0.480	0.410	0.36	0.450	0.390	0.34	0.430	0.380	0.33	0.31			
8	0.620	0.480	0.400	0.34	0.600	0.470	0.390	0.33	0.580	0.460	0.380	0.33	0.430	0.370	0.32	0.410	0.350	0.31	0.390	0.340	0.30	0.28			
9	0.580	0.440	0.360	0.30	0.560	0.430	0.350	0.30	0.540	0.420	0.350	0.29	0.400	0.330	0.29	0.380	0.320	0.28	0.360	0.310	0.27	0.25			
10	0.540	0.410	0.320	0.27	0.520	0.400	0.320	0.27	0.500	0.390	0.310	0.26	0.370	0.300	0.26	0.350	0.290	0.25	0.330	0.280	0.24	0.23			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.