



**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 16" LED Pendant**

### Project Number

**10060194**

### Test Number

**309191**

### 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.

This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.

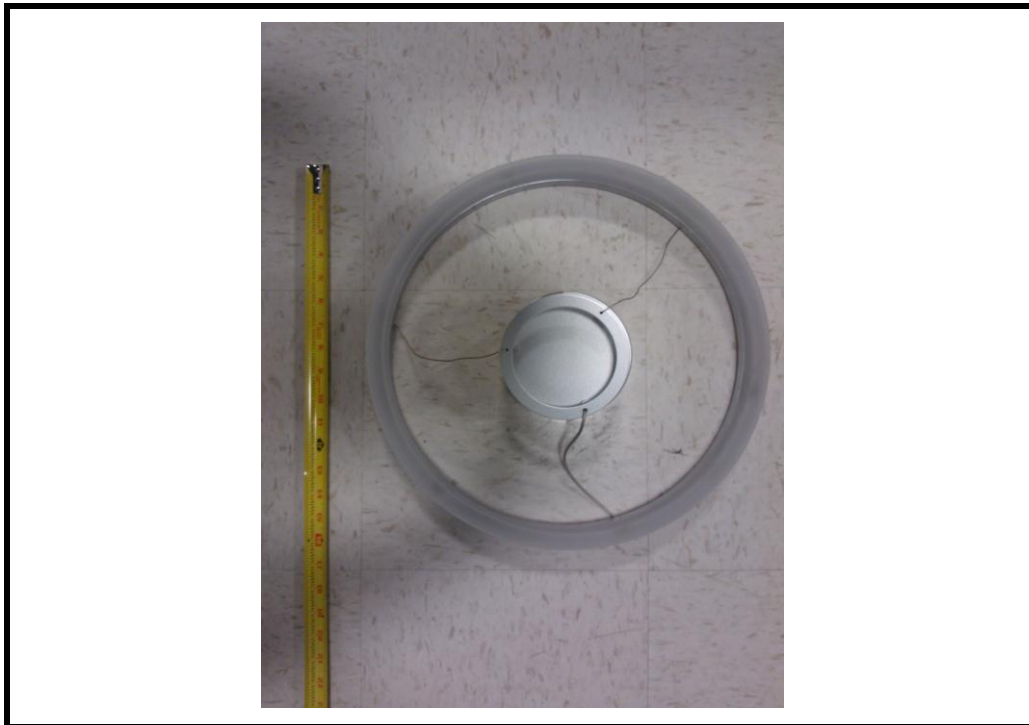


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Luminaire Description: Cast gray enamel steel housing, frosted plastic enclosure  
Catalog Number: Corona 16" LED Pendant  
Mounting: Pendant  
Ballast/Driver: One ES LD024D-CA07036-15

Luminaire



**Test Conditions**

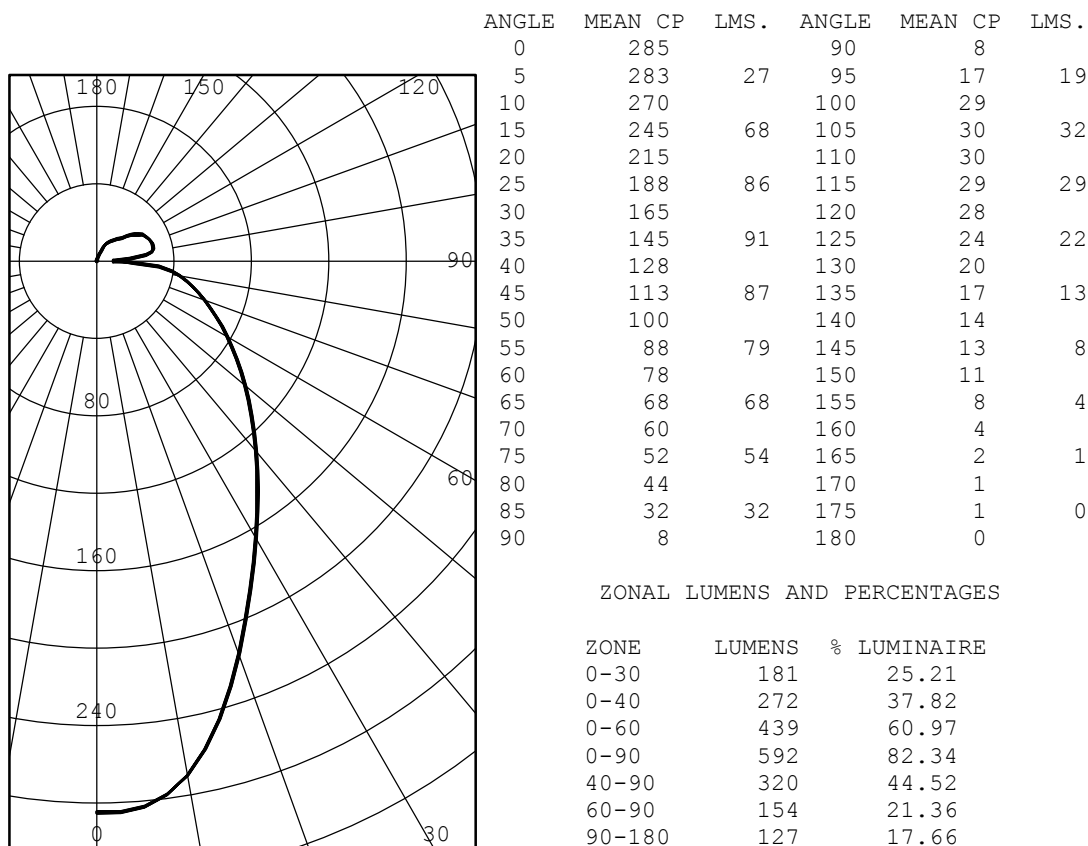
Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.1418 A
Power:	15.30 W
Power Factor:	0.898
Frequency:	60 Hz
Current THD:	31.3 %



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# INTENSITY (CANDLEPOWER) SUMMARY



## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	181	25.21
0-40	272	37.82
0-60	439	60.97
0-90	592	82.34
40-90	320	44.52
60-90	154	21.36
90-180	127	17.66
0-180	720	100.00

EFFICACY (LUMENS PER WATT): 47.0

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 15.690 INS  
 WIDTH: 0.000 INS

## LUMINANCE SUMMARY CD./SQ.M.

S/MH: 0.9  
 SC: 0.9

ANGLE	MEAN CD/SQ M
45	31729
55	21401
65	14936
75	10580
85	6440

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0	285	
5	283	27
10	270	
15	245	68
20	215	
25	188	86
30	165	
35	145	91
40	128	
45	113	87
50	100	
55	88	79
60	78	
65	68	68
70	60	
75	52	54
80	44	
85	32	32
90	8	
95	17	19
100	29	
105	30	32
110	30	
115	29	29
120	28	
125	24	22
130	20	
135	17	13
140	14	
145	13	8
150	11	
155	8	4
160	4	
165	2	1
170	1	
175	1	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	1.201	1.151	1.151	1.151	1.151	1.101	1.101	1.101	1.101	1.011	1.011	1.011	0.930	0.930	0.930	0.860	0.860	0.860	0.82			
1	1.091	1.030	0.990	0.94	1.040	0.990	0.950	0.91	1.000	0.960	0.920	0.88	0.880	0.850	0.82	0.810	0.790	0.76	0.750	0.730	0.71	0.68			
2	0.990	0.910	0.840	0.77	0.950	0.870	0.810	0.75	0.910	0.840	0.780	0.73	0.770	0.730	0.69	0.720	0.680	0.64	0.660	0.630	0.61	0.57			
3	0.910	0.800	0.720	0.65	0.870	0.770	0.700	0.63	0.830	0.740	0.670	0.62	0.690	0.630	0.58	0.640	0.590	0.55	0.590	0.560	0.52	0.49			
4	0.840	0.720	0.630	0.56	0.810	0.690	0.610	0.55	0.770	0.670	0.600	0.54	0.620	0.560	0.51	0.580	0.530	0.49	0.540	0.500	0.46	0.43			
5	0.780	0.640	0.560	0.49	0.750	0.620	0.540	0.48	0.710	0.600	0.520	0.47	0.560	0.500	0.45	0.520	0.470	0.43	0.490	0.440	0.41	0.38			
6	0.720	0.580	0.490	0.43	0.690	0.560	0.480	0.42	0.660	0.550	0.470	0.41	0.510	0.440	0.39	0.480	0.420	0.38	0.450	0.400	0.36	0.34			
7	0.660	0.530	0.440	0.38	0.640	0.510	0.430	0.37	0.610	0.490	0.420	0.36	0.460	0.400	0.35	0.430	0.380	0.33	0.410	0.360	0.32	0.30			
8	0.620	0.480	0.400	0.34	0.600	0.470	0.390	0.33	0.570	0.450	0.380	0.32	0.420	0.360	0.31	0.400	0.340	0.30	0.370	0.330	0.29	0.27			
9	0.580	0.440	0.360	0.30	0.550	0.430	0.350	0.30	0.530	0.420	0.340	0.29	0.390	0.330	0.28	0.370	0.310	0.27	0.350	0.300	0.26	0.24			
10	0.540	0.410	0.320	0.27	0.520	0.390	0.320	0.27	0.500	0.380	0.310	0.26	0.360	0.300	0.25	0.340	0.280	0.24	0.320	0.270	0.23	0.22			

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.