



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 24" LED Pendant

Project Number

10060194

Test Number

309192

Test Date

2013-09-04

Prepared By

Kyle Spaziani, Project Coordinator

Approved By

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.

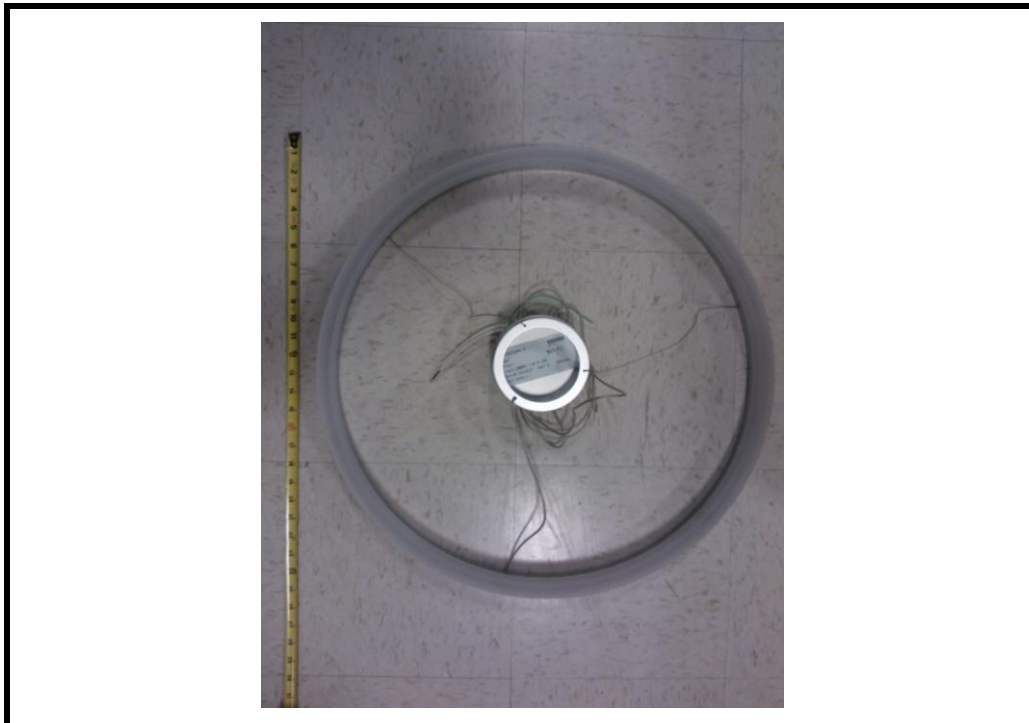


UL Verification Services
7036 Snowdrift Road Suite 200
Allentown, PA 18106
610-774-1300



Luminaire Description: Cast gray enamel steel housing, frosted plastic enclosure
Catalog Number: Corona 24" LED Pendant
Mounting: Pendant
Ballast/Driver: One HS LP1040-36-C0900

Luminaire



Test Conditions

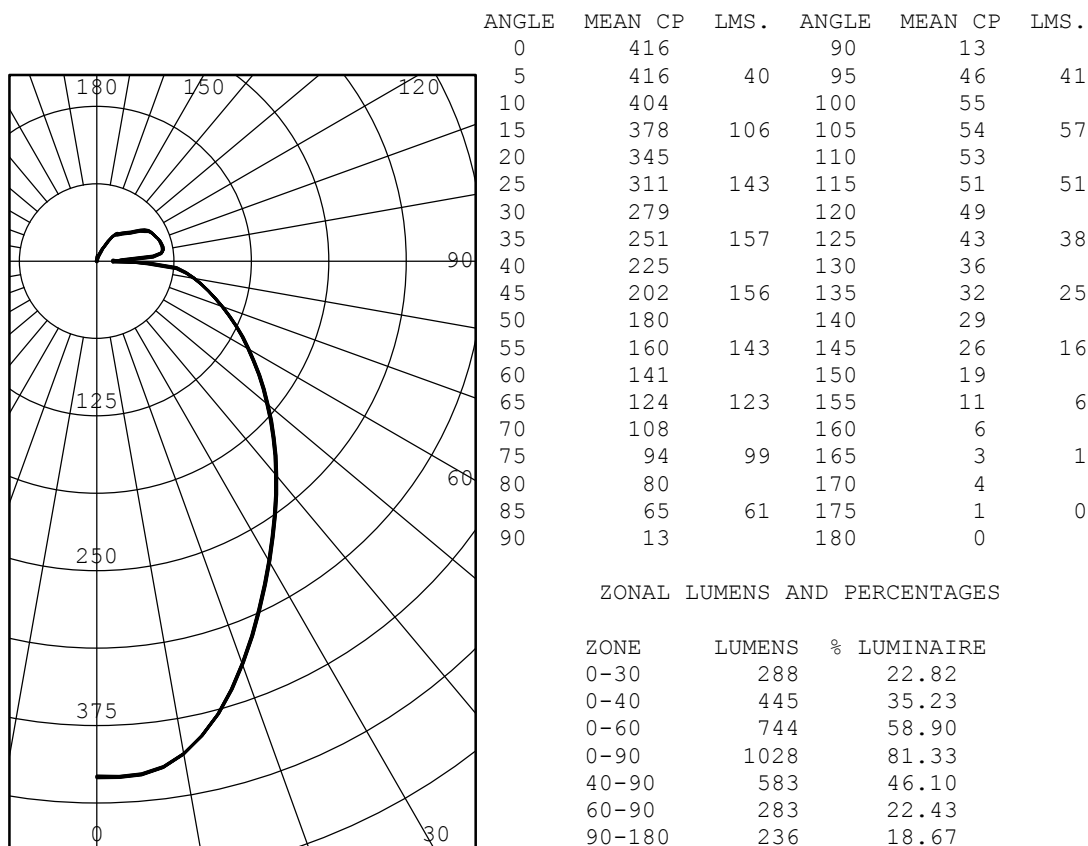
Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.2142 A
Power:	25.06 W
Power Factor:	0.975
Frequency:	60 Hz
Current THD:	0.0900 %



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



INTENSITY (CANDLEPOWER) SUMMARY



ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	288	22.82
0-40	445	35.23
0-60	744	58.90
0-90	1028	81.33
40-90	583	46.10
60-90	283	22.43
90-180	236	18.67
0-180	1264	100.00

EFFICACY (LUMENS PER WATT): 50.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 23.500 INS
WIDTH: 0.000 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.0
SC: 1.0

ANGLE	MEAN CD/SQ M
45	37814
55	25874
65	18150
75	12828
85	8583

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	INTENSITY (CANDLEPOWER)	LUMENS
0	416	
5	416	40
10	404	
15	378	106
20	345	
25	311	143
30	279	
35	251	157
40	225	
45	202	156
50	180	
55	160	143
60	141	
65	124	123
70	108	
75	94	99
80	80	
85	65	61
90	13	
95	46	41
100	55	
105	54	57
110	53	
115	51	51
120	49	
125	43	38
130	36	
135	32	25
140	29	
145	26	16
150	19	
155	11	6
160	6	
165	3	1
170	4	
175	1	0
180	0	



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



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	1.191	1.191	1.191	1.19	1.151	1.151	1.151	1.15	1.101	1.101	1.101	1.10	1.011	1.011	1.01	0.920	0.920	0.92	0.850	0.850	0.85	0.81			
1	1.081	1.030	0.980	0.94	1.040	0.990	0.940	0.90	0.990	0.950	0.910	0.87	0.870	0.840	0.81	0.800	0.770	0.75	0.730	0.710	0.70	0.66			
2	0.990	0.900	0.830	0.76	0.950	0.860	0.800	0.74	0.900	0.830	0.770	0.72	0.760	0.710	0.67	0.700	0.660	0.63	0.650	0.620	0.59	0.56			
3	0.900	0.790	0.700	0.64	0.860	0.760	0.680	0.62	0.820	0.730	0.660	0.60	0.680	0.620	0.57	0.620	0.580	0.54	0.580	0.540	0.50	0.47			
4	0.830	0.710	0.620	0.55	0.800	0.680	0.600	0.53	0.760	0.660	0.580	0.52	0.610	0.540	0.49	0.560	0.510	0.47	0.520	0.480	0.44	0.42			
5	0.770	0.630	0.540	0.47	0.730	0.610	0.520	0.46	0.700	0.590	0.510	0.45	0.550	0.480	0.43	0.510	0.450	0.41	0.470	0.430	0.39	0.36			
6	0.710	0.570	0.480	0.41	0.680	0.550	0.460	0.40	0.650	0.530	0.450	0.39	0.490	0.430	0.38	0.460	0.400	0.36	0.430	0.380	0.34	0.32			
7	0.650	0.510	0.420	0.36	0.630	0.500	0.410	0.35	0.600	0.480	0.400	0.34	0.450	0.380	0.33	0.420	0.360	0.31	0.390	0.340	0.30	0.28			
8	0.610	0.470	0.380	0.32	0.580	0.450	0.370	0.31	0.560	0.440	0.360	0.31	0.410	0.340	0.29	0.380	0.320	0.28	0.360	0.310	0.27	0.25			
9	0.570	0.430	0.340	0.28	0.540	0.410	0.330	0.28	0.520	0.400	0.330	0.27	0.370	0.310	0.26	0.350	0.290	0.25	0.330	0.280	0.24	0.22			
10	0.520	0.390	0.310	0.26	0.500	0.380	0.300	0.25	0.480	0.370	0.300	0.25	0.340	0.280	0.24	0.320	0.270	0.23	0.300	0.250	0.22	0.20			

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.