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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L051603303.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L051603303  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUEDATE] 5/19/2016  
[MANUFAC] Colt LED  
[LUMCAT] D12X6-GEN3-55W BiColor Fixture  
[LUMINAIRE] 50.5"L X 28.25"W. X 4"H. 12 Lamp LED Fixture - Tungsten  
[BALLASTCAT] N/A  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[REMARK] CANDELA VALUES AND ELECTRICAL DATA ARE PRORATED FROM  
[MORE] LIGHT LABORATORY REPORT L051603301. PRORATION RATIO IS  
[MORE] CALCULATED FROM LIGHT LABORATORY REPORT L051603201(55W, Daylight)  
[MORE] AND L051603203(55W, Tungsten)  
[MORE] CANDELA VALUE RATIO = 0.9096(3657.7/3996.86)  
[MORE] POWER RATIO = 1.0018(49.19/49.1)  
[INPUT] 120VAC, 614.82W  
[TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	38387
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	614.82
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16987	18220	19471
55	15944	18283	20207
65	14879	19328	21085
75	12096	19257	19326
85	6238	12099	11276

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	12799	12799	12799	12799	12799
<b>5</b>	12715	12718	12731	12748	12758
<b>10</b>	12507	12518	12548	12581	12602
<b>15</b>	12164	12189	12249	12309	12335
<b>20</b>	11706	11745	11844	11946	11980
<b>25</b>	11134	11193	11339	11492	11553
<b>30</b>	10471	10551	10753	10970	11053
<b>35</b>	9733	9832	10100	10382	10500
<b>40</b>	8921	9047	9388	9740	9883
<b>45</b>	8042	8199	8626	9044	9218
<b>50</b>	7109	7310	7832	8318	8511
<b>55</b>	6123	6393	7021	7554	7760
<b>60</b>	5163	5515	6242	6781	6948
<b>65</b>	4210	4664	5469	5878	5966
<b>70</b>	3154	3748	4503	4686	4712
<b>75</b>	2096	2837	3337	3375	3349
<b>80</b>	1111	1823	2033	1997	1953
<b>85</b>	364	704	706	677	658
<b>90</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4666.45	N.A.	12.20
0-30	9895.16	N.A.	25.80
0-40	16221.66	N.A.	42.30
0-60	29131.3	N.A.	75.90
0-80	37530.95	N.A.	97.80
0-90	38386.94	N.A.	100.00
10-90	37177.23	N.A.	96.80
20-40	11555.2	N.A.	30.10
20-50	18213.97	N.A.	47.40
40-70	18090.12	N.A.	47.10
60-80	8399.64	N.A.	21.90
70-80	3219.16	N.A.	8.40
80-90	855.99	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	38386.94	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1209.71
10-20	3456.74
20-30	5228.71
30-40	6326.5
40-50	6658.76
50-60	6250.88
60-70	5180.48
70-80	3219.16
80-90	855.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

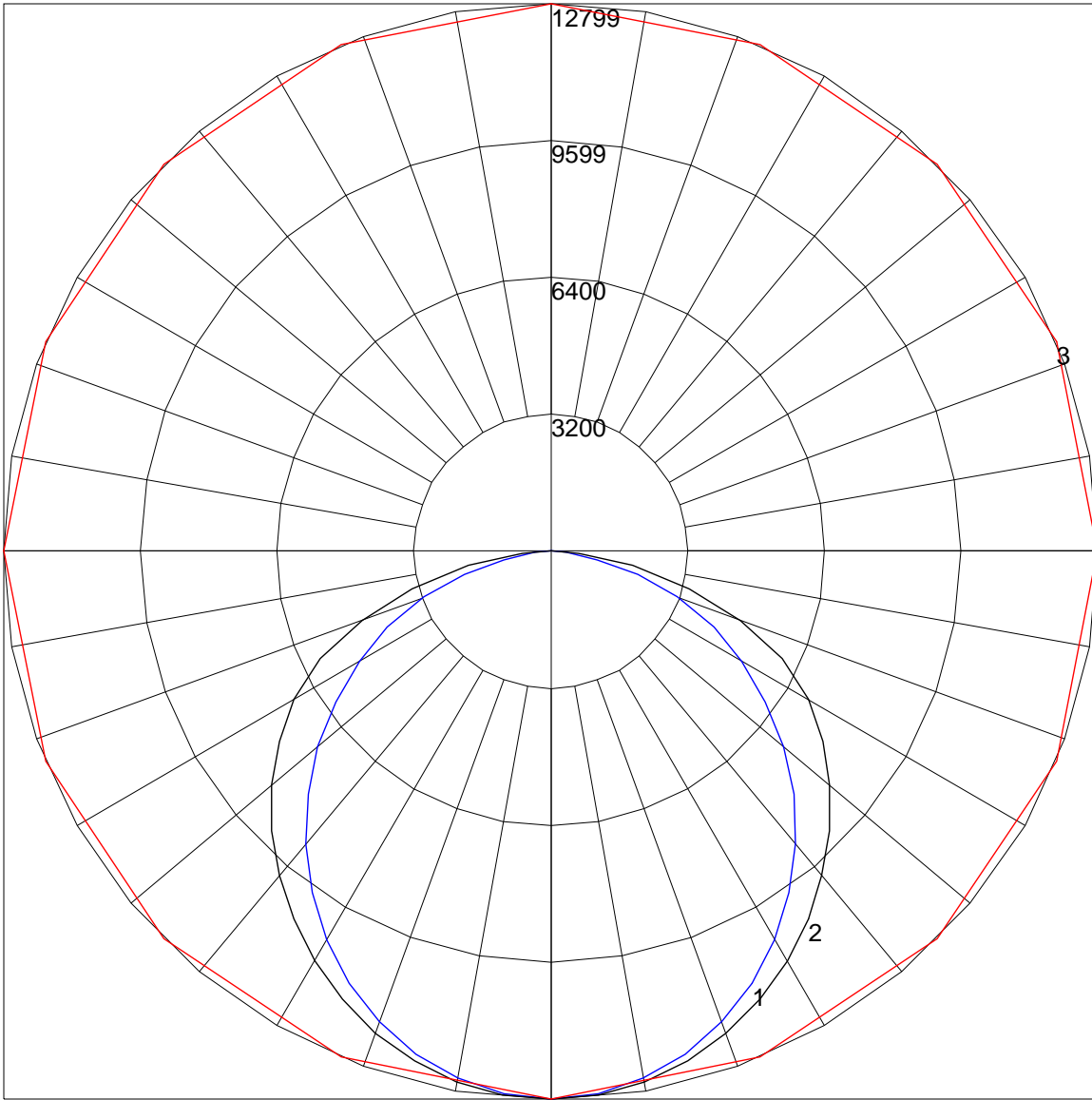
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 12799 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)