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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L051603305.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L051603305  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUEDATE] 5/19/2016  
 [MANUFAC] Colt LED  
 [LUMCAT] D24X6-GEN3-55W BiColor Fixture  
 [LUMINAIRE] 24 Lamp LED Fixture - Daylight  
 [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 BY USING THE RATIO OF  
 [MORE] TOTAL NUMBER OF LAMPS. RATIO=2.0(24 LAMPS / 12 LAMPS).  
 [INPUT] 120VAC, 1227.40W  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	84404
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	1227.4
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)	3.84 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18674	20030	21406
55	17530	20100	22215
65	16356	21247	23180
75	13296	21173	21248
85	6855	13298	12390

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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>	28142	28142	28142	28142	28142
<b>5</b>	27958	27964	27992	28030	28052
<b>10</b>	27500	27524	27590	27662	27708
<b>15</b>	26746	26800	26932	27064	27122
<b>20</b>	25738	25824	26042	26266	26342
<b>25</b>	24480	24610	24932	25268	25402
<b>30</b>	23024	23200	23644	24120	24304
<b>35</b>	21400	21618	22208	22828	23086
<b>40</b>	19616	19892	20642	21416	21730
<b>45</b>	17682	18028	18966	19886	20268
<b>50</b>	15632	16074	17220	18290	18714
<b>55</b>	13464	14056	15438	16610	17062
<b>60</b>	11352	12126	13724	14910	15278
<b>65</b>	9256	10256	12024	12924	13118
<b>70</b>	6936	8242	9902	10304	10360
<b>75</b>	4608	6238	7338	7420	7364
<b>80</b>	2442	4008	4470	4390	4294
<b>85</b>	800	1548	1552	1488	1446
<b>90</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	10260.32	N.A.	12.20
0-30	21756.97	N.A.	25.80
0-40	35667.51	N.A.	42.30
0-60	64052.97	N.A.	75.90
0-80	82521.94	N.A.	97.80
0-90	84403.74	N.A.	100.00
10-90	81743.88	N.A.	96.80
20-40	25407.19	N.A.	30.10
20-50	40048.3	N.A.	47.40
40-70	39776.19	N.A.	47.10
60-80	18468.95	N.A.	21.90
70-80	7078.22	N.A.	8.40
80-90	1881.81	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	84403.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2659.86
10-20	7600.46
20-30	11496.65
30-40	13910.54
40-50	14641.12
50-60	13744.35
60-70	11390.73
70-80	7078.22
80-90	1881.81
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

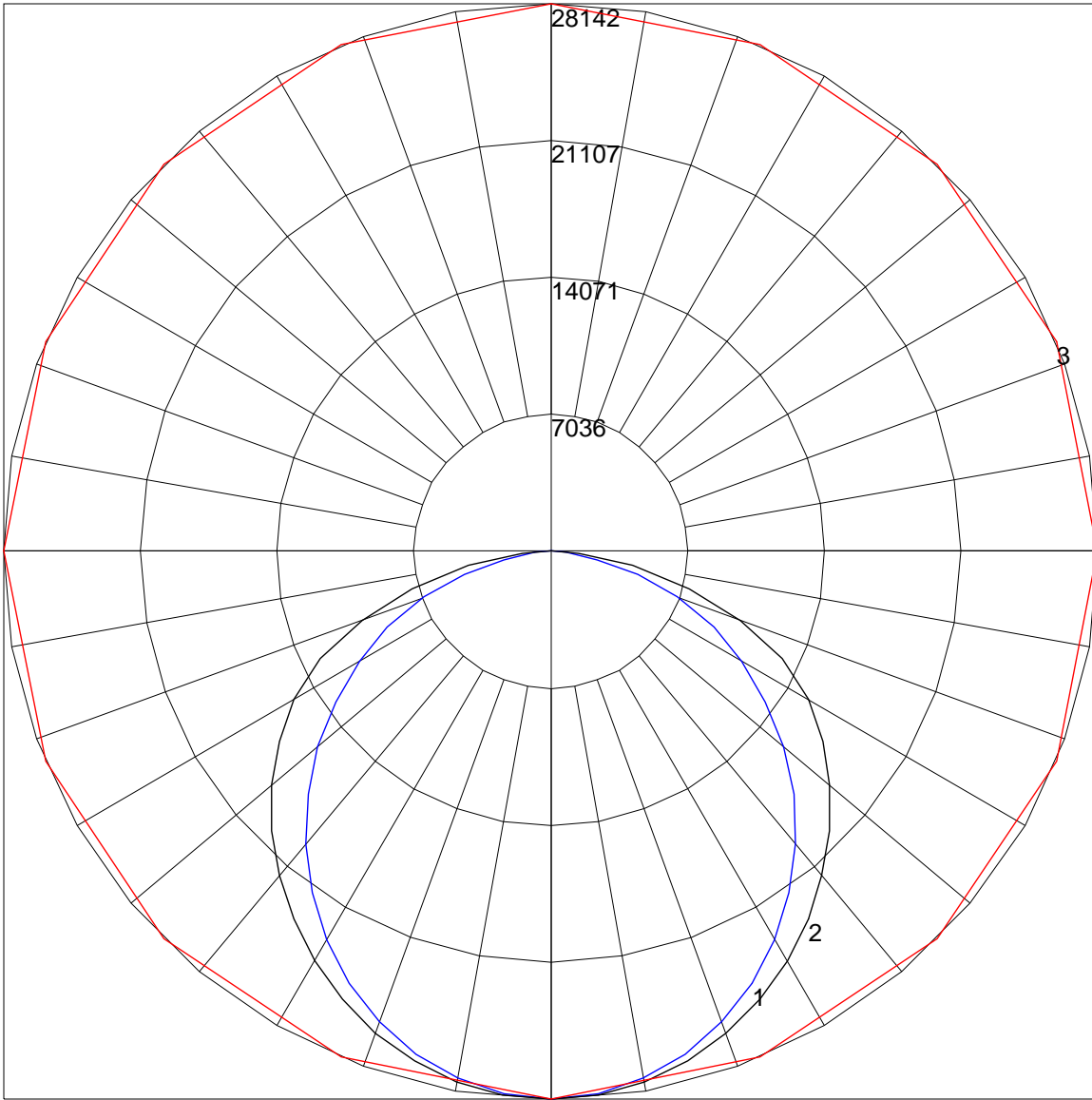
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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 = 28142 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.)