



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L50-835-DIM-UNV-OW-OF-CS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20685.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 13-DEC-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 1 BRIDGELUX V13 LED 4"RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 4DR-TL-L50-835-DIM-UNV-OW-OF-CS

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5124
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	45.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.37 ft (Diameter)
Luminous Width (90-270)	0.37 ft (Diameter)
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15538	15538	15538
55	4789	4789	4789
65	591	591	591
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	4397.552
5	4528.750
10	4664.807
15	4761.990
20	4973.364
25	5420.408
30	4246.918
35	745.883
40	194.367
45	106.902
50	55.880
55	26.725
60	12.148
65	2.430
70	2.430
75	0.000
80	0.000
85	0.000
90	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1797.11	N.A.	35.10
0-30	4110.64	N.A.	80.20
0-40	5002.74	N.A.	97.60
0-60	5118.36	N.A.	99.90
0-80	5123.77	N.A.	100.00
0-90	5123.77	N.A.	100.00
10-90	4688.17	N.A.	91.50
20-40	3205.62	N.A.	62.60
20-50	3294.3	N.A.	64.30
40-70	120.40	N.A.	2.30
60-80	5.41	N.A.	0.10
70-80	0.64	N.A.	0.00
80-90	0.00	N.A.	0.00
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	5123.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	435.59
10-20	1361.52
20-30	2313.52
30-40	892.10
40-50	88.67
50-60	26.95
60-70	4.77
70-80	0.64
80-90	0.00
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

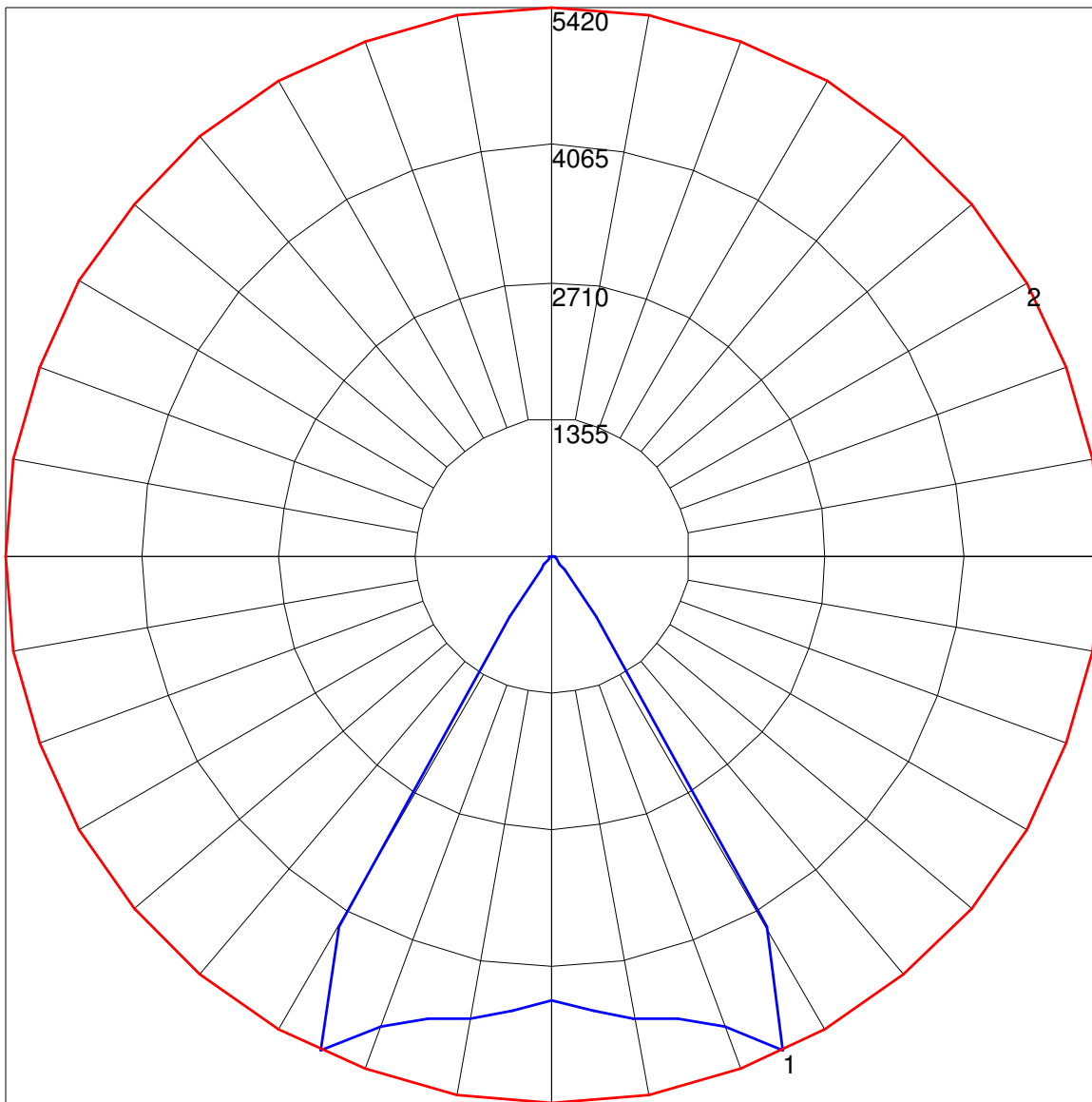
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	594	594	594	594	580	580	580	580	554	554	554	531	531	531	509	509	509	499
1	567	554	542	531	555	543	532	523	523	514	506	504	498	491	487	482	477	468
2	540	517	497	481	529	508	491	476	492	478	465	477	466	455	464	454	446	438
3	514	483	459	440	504	476	454	437	463	445	430	451	436	423	440	427	416	409
4	489	453	426	405	480	447	422	403	436	415	398	426	408	394	417	402	389	382
5	465	425	396	376	457	420	394	374	411	388	371	403	383	367	395	378	364	357
6	442	399	370	349	435	395	368	348	388	364	346	381	359	343	374	356	341	334
7	421	375	346	326	414	372	344	325	366	341	323	360	338	321	354	335	320	313
8	400	354	325	305	394	351	323	304	346	321	303	341	318	301	336	315	300	293
9	381	334	305	286	376	332	304	285	327	302	284	322	300	283	318	297	282	276
10	363	316	287	268	358	314	286	268	309	284	267	306	283	266	302	281	266	259

POLAR GRAPH



Maximum Candela = 5420.408 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)