



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-P44-835-POE-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-P44-835-DIM-OW-OF-CS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4408
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	37.5
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	13367	13367	13367
55	4120	4120	4120
65	508	508	508
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	3783.063
5	3895.928
10	4012.973
15	4096.576
20	4278.414
25	4662.991
30	3653.477
35	641.658
40	167.207
45	91.964
50	48.072
55	22.991
60	10.450
65	2.090
70	2.090
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	1546.00	N.A.	35.10
0-30	3536.24	N.A.	80.20
0-40	4303.68	N.A.	97.60
0-60	4403.15	N.A.	99.90
0-80	4407.8	N.A.	100.00
0-90	4407.8	N.A.	100.00
10-90	4033.07	N.A.	91.50
20-40	2757.69	N.A.	62.60
20-50	2833.97	N.A.	64.30
40-70	103.57	N.A.	2.30
60-80	4.65	N.A.	0.10
70-80	0.55	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	4407.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	374.73
10-20	1171.27
20-30	1990.24
30-40	767.44
40-50	76.28
50-60	23.18
60-70	4.11
70-80	0.55
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

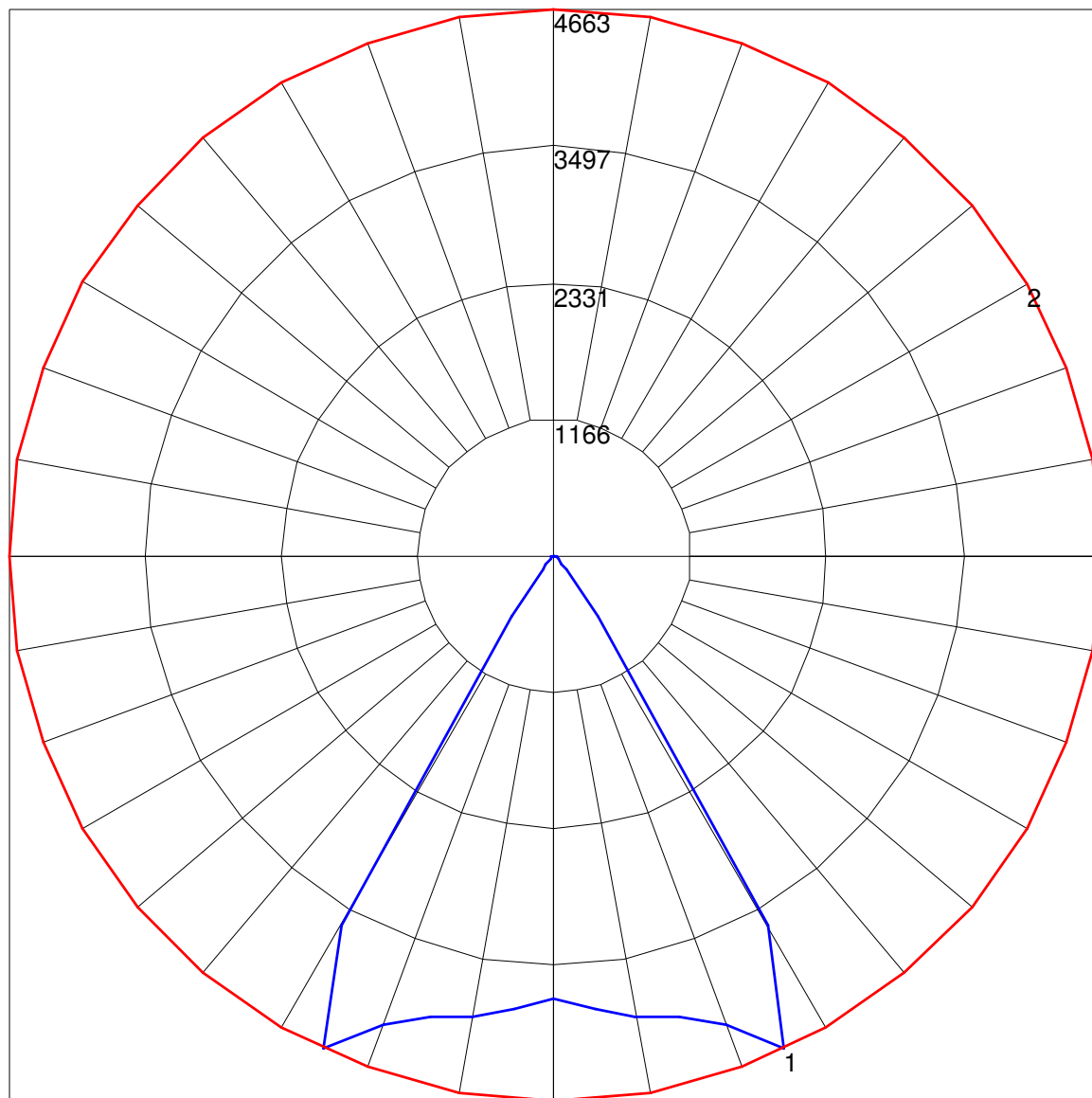
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	185	185	185	185	181	181	181	181	173	173	173	165	165	165	159	159	159	155
1	177	172	169	165	173	169	166	163	163	160	158	157	155	153	152	150	149	146
2	168	161	155	150	165	158	153	148	153	149	145	149	145	142	144	141	139	136
3	160	150	143	137	157	148	141	136	144	139	134	141	136	132	137	133	130	127
4	152	141	133	126	150	139	131	126	136	129	124	133	127	123	130	125	121	119
5	145	132	123	117	142	131	123	116	128	121	115	125	119	114	123	118	113	111
6	138	124	115	109	135	123	115	108	121	113	108	119	112	107	117	111	106	104
7	131	117	108	101	129	116	107	101	114	106	101	112	105	100	110	104	100	97
8	125	110	101	95	123	109	101	95	108	100	94	106	99	94	105	98	93	91
9	119	104	95	89	117	103	95	89	102	94	88	100	93	88	99	93	88	86
10	113	98	89	84	112	98	89	83	96	89	83	95	88	83	94	87	83	81

POLAR GRAPH



Maximum Candela = 4662.991 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.)