

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L40-930-DIM-UNV-OW-OF-SPC_.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] 07-21-2025

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] OPEN SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 4DR-TL-L40-930-DIM-UNV-OW-OF-SPC

[LAMPCAT] V13 BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3206
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	38
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	9722	9722	9722
55	2996	2996	2996
65	370	370	370
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2751.475
5	2833.563
10	2918.692
15	2979.498
20	3111.751
25	3391.459
30	2657.226
35	466.687
40	121.612
45	66.887
50	34.963
55	16.722
60	7.601
65	1.520
70	1.520
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	1124.42	N.A.	35.10
0-30	2571.96	N.A.	80.20
0-40	3130.13	N.A.	97.60
0-60	3202.47	N.A.	99.90
0-80	3205.86	N.A.	100.00
0-90	3205.86	N.A.	100.00
10-90	2933.31	N.A.	91.50
20-40	2005.7	N.A.	62.60
20-50	2061.19	N.A.	64.30
40-70	75.33	N.A.	2.30
60-80	3.38	N.A.	0.10
70-80	0.40	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	3205.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	272.54
10-20	851.88
20-30	1447.53
30-40	558.17
40-50	55.48
50-60	16.86
60-70	2.99
70-80	0.40
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

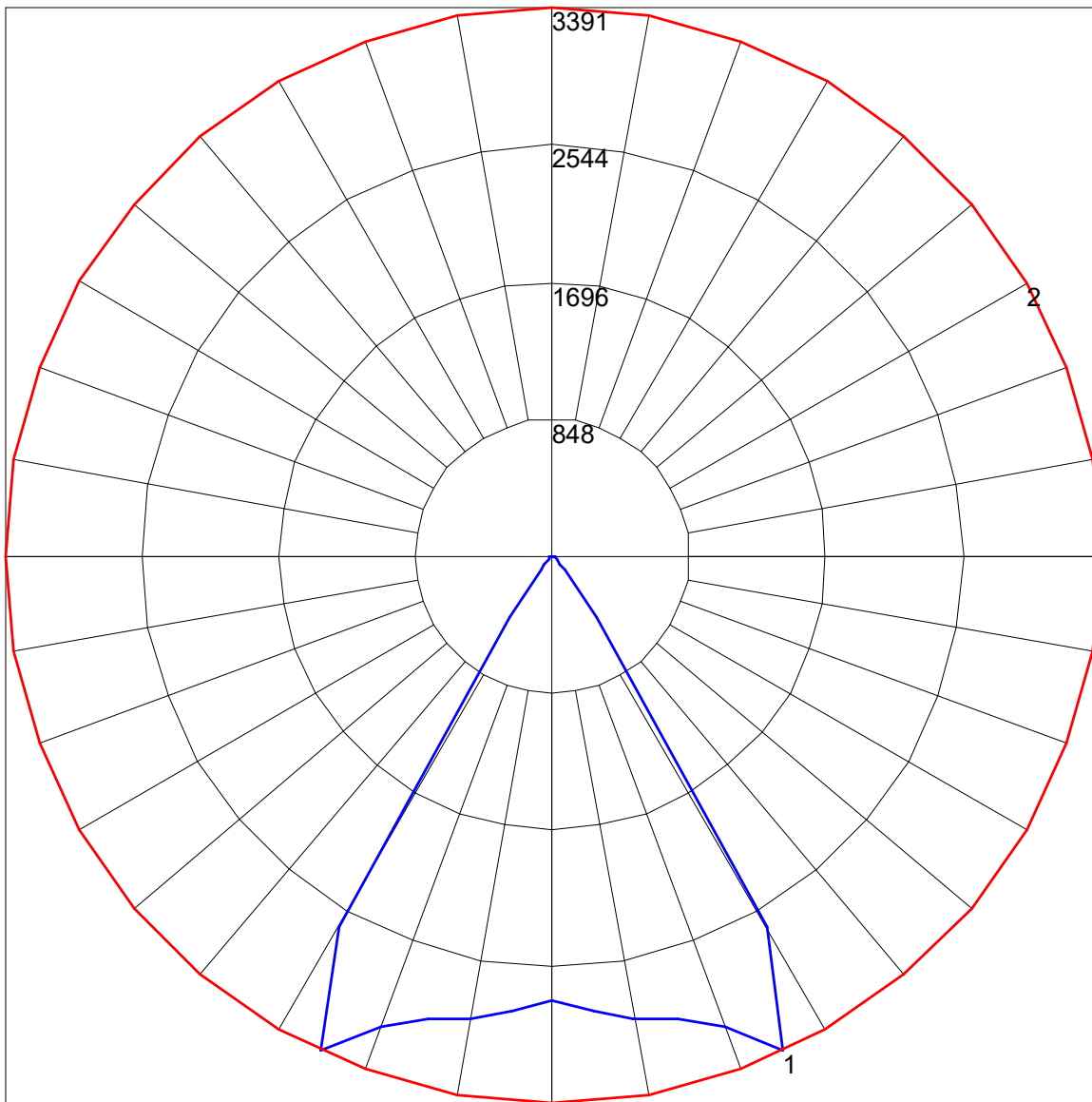
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	323	323	323	323	316	316	316	316	302	302	302	289	289	289	277	277	277	271
1	309	301	295	289	302	295	290	284	285	280	276	274	271	267	265	262	260	255
2	294	281	271	262	288	277	267	259	268	260	253	260	253	248	252	247	243	238
3	280	263	250	239	274	259	247	238	252	242	234	246	237	230	240	233	227	222
4	266	246	232	221	261	243	230	219	237	226	217	232	222	214	227	219	212	208
5	253	231	216	204	249	228	214	203	224	211	202	219	208	200	215	206	198	194
6	241	217	201	190	237	215	200	189	211	198	188	207	196	187	204	193	186	182
7	229	204	188	177	225	202	187	177	199	186	176	196	184	175	193	182	174	170
8	218	193	177	166	215	191	176	165	188	174	165	185	173	164	183	172	163	160
9	207	182	166	155	204	180	165	155	178	164	155	175	163	154	173	162	154	150
10	198	172	156	146	195	171	156	146	168	155	145	166	154	145	164	153	145	141

POLAR GRAPH



Maximum Candela = 3391.459 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.)