

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L30-930-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-L30-930-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	2405
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	27.8
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	7294	7294	7294
55	2248	2248	2248
65	277	277	277
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2064.303
5	2125.890
10	2189.758
15	2235.378
20	2334.601
25	2544.453
30	1993.592
35	350.133
40	91.240
45	50.182
50	26.231
55	12.545
60	5.702
65	1.140
70	1.140
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	843.60	N.A.	35.10
0-30	1929.62	N.A.	80.20
0-40	2348.39	N.A.	97.60
0-60	2402.66	N.A.	99.90
0-80	2405.2	N.A.	100.00
0-90	2405.2	N.A.	100.00
10-90	2200.73	N.A.	91.50
20-40	1504.79	N.A.	62.60
20-50	1546.41	N.A.	64.30
40-70	56.52	N.A.	2.30
60-80	2.54	N.A.	0.10
70-80	0.30	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	2405.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	204.48
10-20	639.13
20-30	1086.02
30-40	418.77
40-50	41.63
50-60	12.65
60-70	2.24
70-80	0.30
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

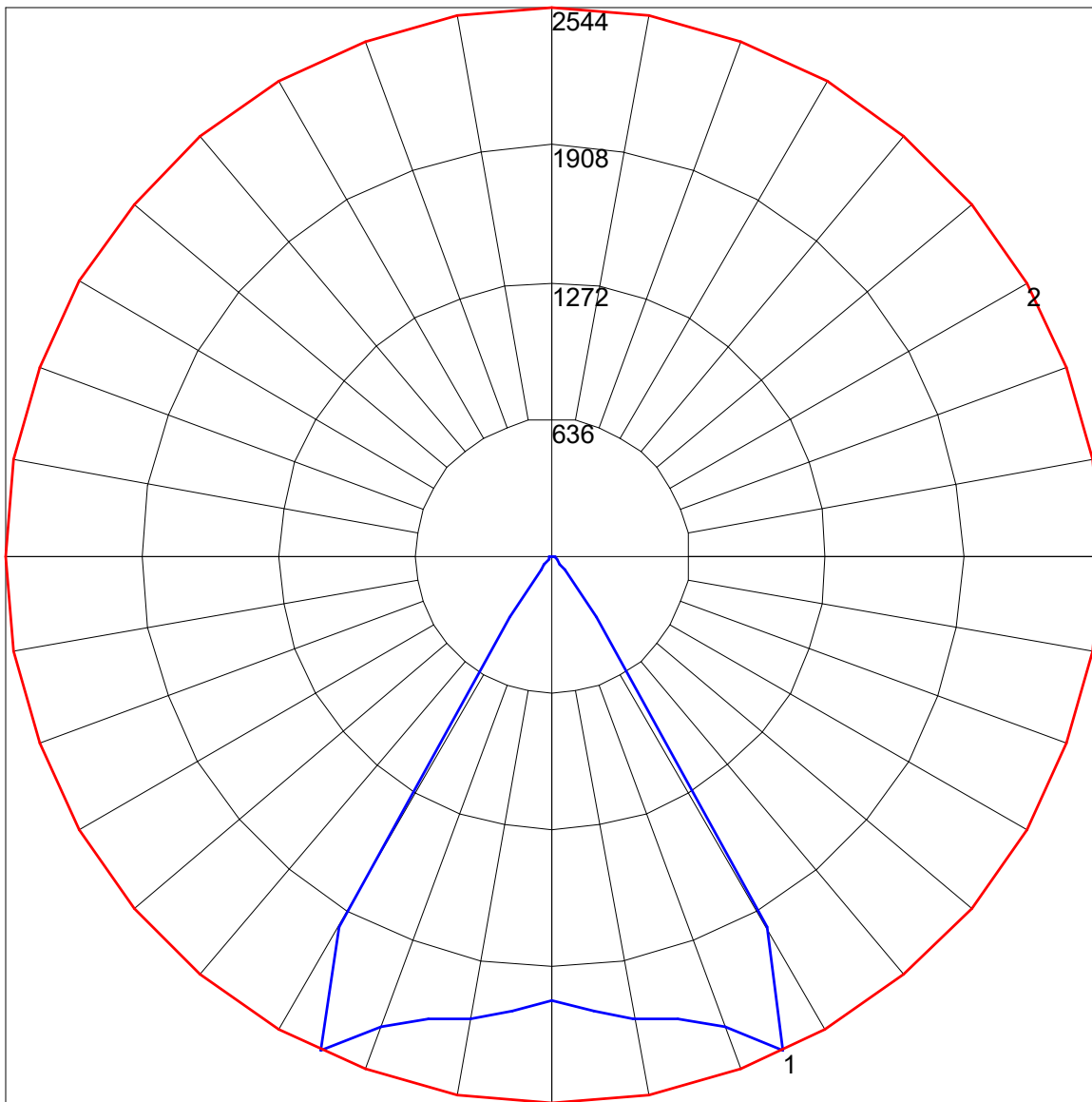
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	242	242	242	242	237	237	237	237	226	226	226	217	217	217	208	208	208	204
1	232	226	221	217	227	222	217	213	213	210	207	206	203	201	199	197	195	191
2	221	211	203	196	216	207	200	194	201	195	190	195	190	186	189	185	182	179
3	210	197	187	180	206	194	185	178	189	182	175	184	178	173	180	174	170	167
4	200	185	174	166	196	182	172	165	178	169	163	174	167	161	170	164	159	156
5	190	173	162	153	187	171	161	153	168	158	151	164	156	150	161	154	149	146
6	181	163	151	143	178	161	150	142	158	148	141	155	147	140	153	145	139	136
7	172	153	141	133	169	152	141	133	149	139	132	147	138	131	145	137	130	128
8	163	144	133	124	161	143	132	124	141	131	124	139	130	123	137	129	123	120
9	156	136	125	117	153	135	124	116	133	123	116	132	122	116	130	121	115	113
10	148	129	117	110	146	128	117	109	126	116	109	125	115	109	123	115	108	106

POLAR GRAPH



Maximum Candela = 2544.453 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.)