



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L22-8TW-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

[ISSUEDATE] 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-L22-8TW-DIM-UNV-OW-OF-CS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2289
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	24
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	6941	6941	6941
55	2139	2139	2139
65	264	264	264
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1964.480
5	2023.089
10	2083.868
15	2127.282
20	2221.707
25	2421.411
30	1897.188
35	333.202
40	86.828
45	47.755
50	24.963
55	11.939
60	5.427
65	1.085
70	1.085
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	802.81	N.A.	35.10
0-30	1836.31	N.A.	80.20
0-40	2234.83	N.A.	97.60
0-60	2286.48	N.A.	99.90
0-80	2288.9	N.A.	100.00
0-90	2288.9	N.A.	100.00
10-90	2094.31	N.A.	91.50
20-40	1432.02	N.A.	62.60
20-50	1471.63	N.A.	64.30
40-70	53.78	N.A.	2.30
60-80	2.42	N.A.	0.10
70-80	0.28	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	2288.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.59
10-20	608.22
20-30	1033.5
30-40	398.52
40-50	39.61
50-60	12.04
60-70	2.13
70-80	0.28
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

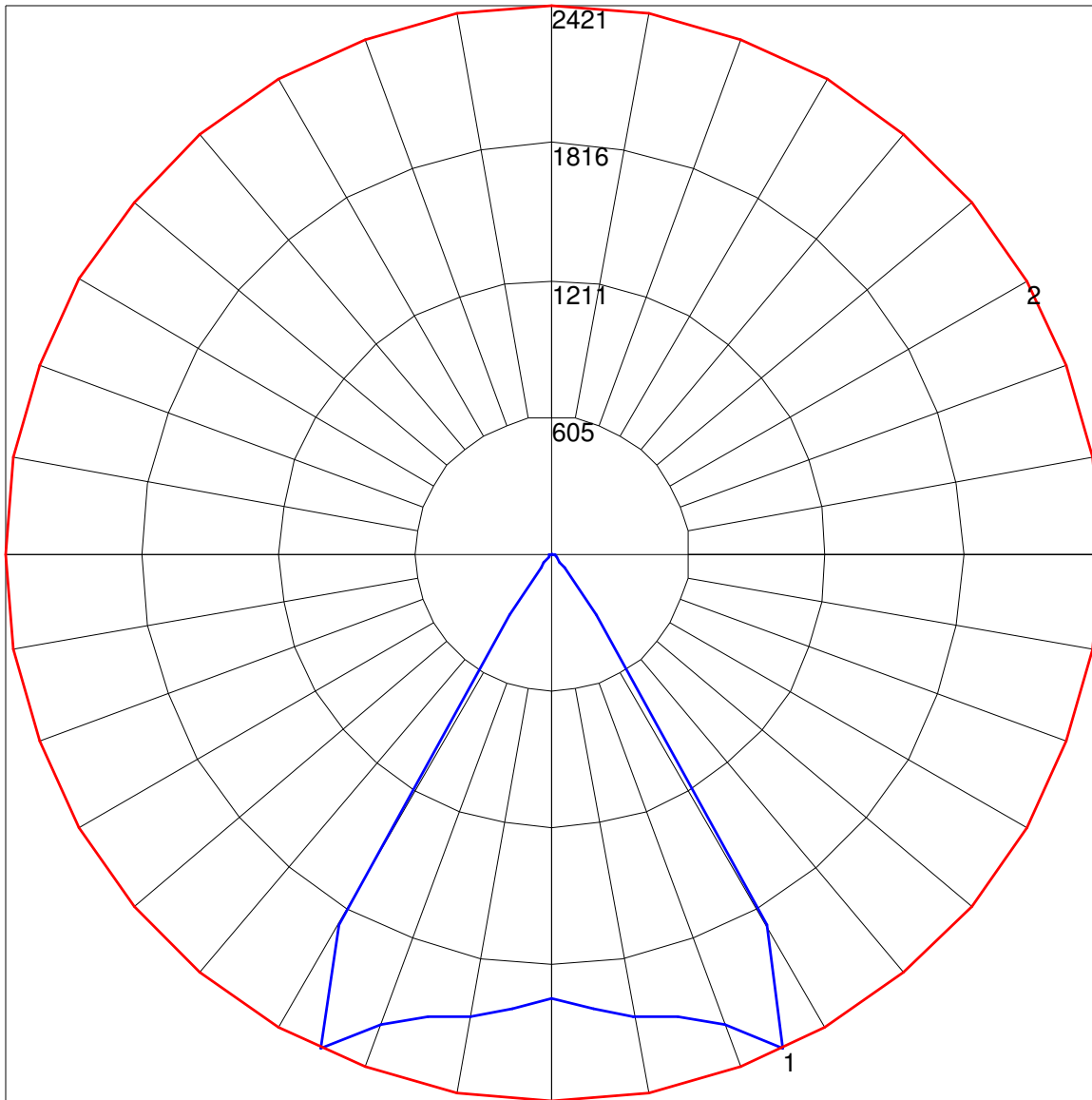
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	129	129	129	129	126	126	126	126	121	121	121	115	115	115	111	111	111	109
1	123	120	118	116	121	118	116	114	114	112	110	110	108	107	106	105	104	102
2	118	112	108	105	115	111	107	103	107	104	101	104	101	99	101	99	97	95
3	112	105	100	96	110	104	99	95	101	97	93	98	95	92	96	93	91	89
4	106	98	93	88	104	97	92	88	95	90	87	93	89	86	91	87	85	83
5	101	92	86	82	99	91	86	81	89	84	81	88	83	80	86	82	79	78
6	96	87	80	76	95	86	80	76	84	79	75	83	78	75	81	77	74	73
7	91	82	75	71	90	81	75	71	80	74	70	78	73	70	77	73	70	68
8	87	77	71	66	86	76	70	66	75	70	66	74	69	66	73	69	65	64
9	83	73	66	62	82	72	66	62	71	66	62	70	65	62	69	65	61	60
10	79	69	62	58	78	68	62	58	67	62	58	66	61	58	66	61	58	56

POLAR GRAPH



Maximum Candela = 2421.411 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.)