



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L13-9TC-DIM-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-L13-9TC-DIM-UNV-OW-OF-CS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1391
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
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	4218	4218	4218
55	1300	1300	1300
65	161	161	161
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1193.793
5	1229.409
10	1266.344
15	1292.726
20	1350.107
25	1471.465
30	1152.901
35	202.483
40	52.764
45	29.020
50	15.170
55	7.255
60	3.298
65	0.660
70	0.660
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	487.86	N.A.	35.10
0-30	1115.91	N.A.	80.20
0-40	1358.08	N.A.	97.60
0-60	1389.47	N.A.	99.90
0-80	1390.94	N.A.	100.00
0-90	1390.94	N.A.	100.00
10-90	1272.69	N.A.	91.50
20-40	870.22	N.A.	62.60
20-50	894.29	N.A.	64.30
40-70	32.68	N.A.	2.30
60-80	1.47	N.A.	0.10
70-80	0.17	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	1390.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.25
10-20	369.61
20-30	628.05
30-40	242.18
40-50	24.07
50-60	7.32
60-70	1.30
70-80	0.17
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

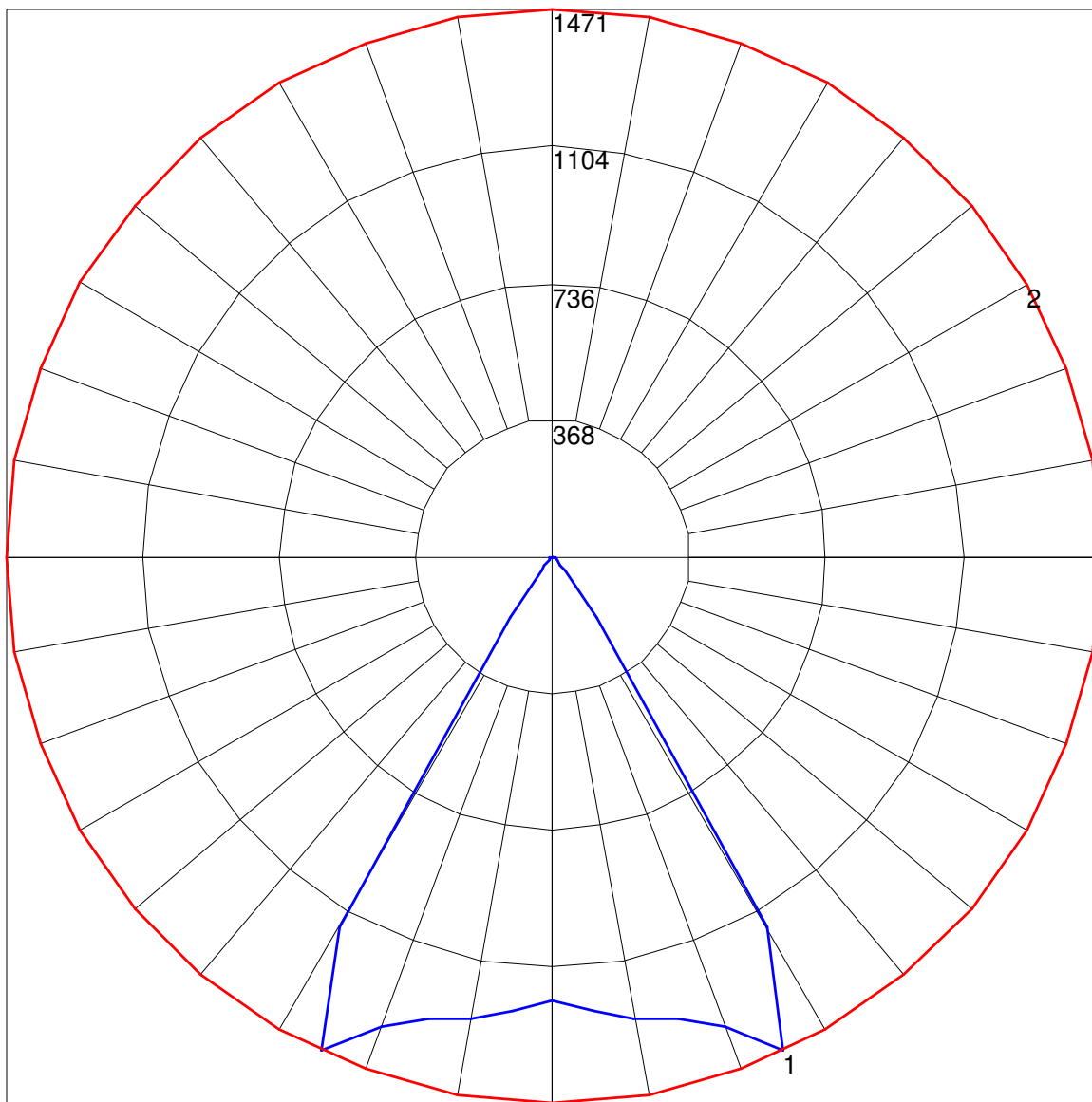
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	105	103
1	117	114	112	110	115	112	110	108	108	106	105	104	103	101	101	100	99	97
2	112	107	103	99	109	105	101	98	102	99	96	99	96	94	96	94	92	90
3	106	100	95	91	104	98	94	90	96	92	89	93	90	87	91	88	86	84
4	101	93	88	84	99	92	87	83	90	86	82	88	84	81	86	83	80	79
5	96	88	82	78	94	87	81	77	85	80	77	83	79	76	82	78	75	74
6	91	82	76	72	90	82	76	72	80	75	71	79	74	71	77	73	70	69
7	87	78	71	67	86	77	71	67	76	70	67	74	70	66	73	69	66	65
8	83	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61
9	79	69	63	59	78	68	63	59	68	62	59	67	62	58	66	61	58	57
10	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	54

POLAR GRAPH



Maximum Candela = 1471.465 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.)