



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-P15-835-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-P15-835-DIM-OW-OF-CS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	12.3
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	4661	4661	4661
55	1437	1437	1437
65	177	177	177
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1319.094
5	1358.449
10	1399.260
15	1428.412
20	1491.816
25	1625.911
30	1273.910
35	223.736
40	58.303
45	32.066
50	16.762
55	8.017
60	3.644
65	0.729
70	0.729
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	539.06	N.A.	35.10
0-30	1233.03	N.A.	80.20
0-40	1500.63	N.A.	97.60
0-60	1535.31	N.A.	99.90
0-80	1536.93	N.A.	100.00
0-90	1536.93	N.A.	100.00
10-90	1406.27	N.A.	91.50
20-40	961.56	N.A.	62.60
20-50	988.16	N.A.	64.30
40-70	36.11	N.A.	2.30
60-80	1.62	N.A.	0.10
70-80	0.19	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	1536.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.66
10-20	408.40
20-30	693.97
30-40	267.59
40-50	26.60
50-60	8.08
60-70	1.43
70-80	0.19
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

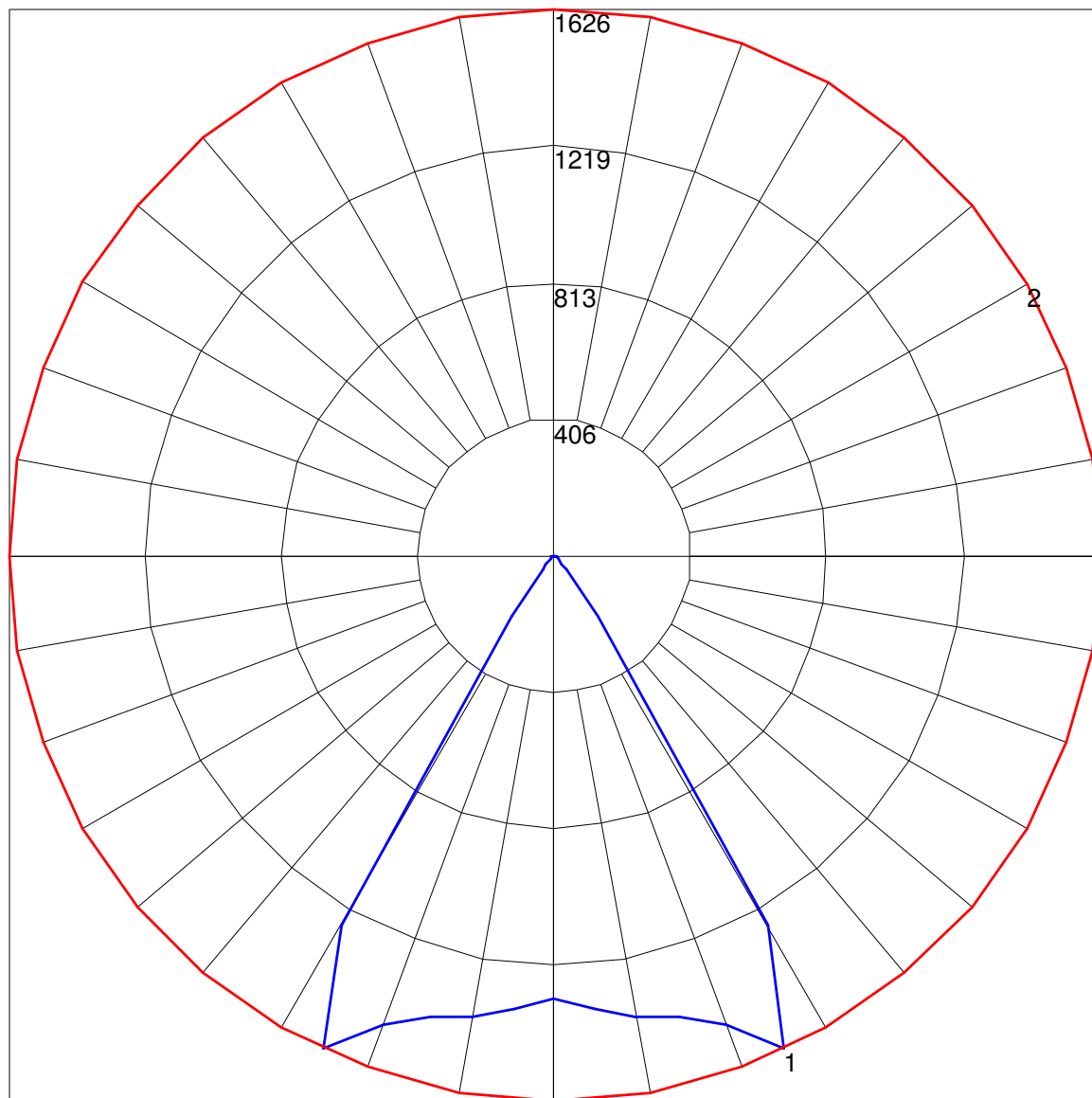
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	64	64	64	64	63	63	63	63	60	60	60	58	58	58	55	55	55	54
1	62	60	59	58	60	59	58	57	57	56	55	55	54	53	53	52	52	51
2	59	56	54	52	57	55	53	52	53	52	51	52	51	49	50	49	48	48
3	56	52	50	48	55	52	49	47	50	48	47	49	47	46	48	46	45	44
4	53	49	46	44	52	49	46	44	47	45	43	46	44	43	45	44	42	41
5	50	46	43	41	50	46	43	41	45	42	40	44	42	40	43	41	40	39
6	48	43	40	38	47	43	40	38	42	39	38	41	39	37	41	39	37	36
7	46	41	38	35	45	40	37	35	40	37	35	39	37	35	38	36	35	34
8	43	38	35	33	43	38	35	33	38	35	33	37	35	33	36	34	33	32
9	41	36	33	31	41	36	33	31	35	33	31	35	33	31	35	32	31	30
10	39	34	31	29	39	34	31	29	34	31	29	33	31	29	33	30	29	28

POLAR GRAPH



Maximum Candela = 1625.911 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.)