



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L60-835-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

[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-L60-835-DIM-UNV-OW-OF-CS

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	58.6
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	18670	18670	18670
55	5754	5754	5754
65	710	710	710
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	5284.101
5	5441.749
10	5605.235
15	5722.010
20	5975.998
25	6513.166
30	5103.099
35	896.254
40	233.551
45	128.453
50	67.146
55	32.113
60	14.597
65	2.919
70	2.919
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	2159.41	N.A.	35.10
0-30	4939.35	N.A.	80.20
0-40	6011.29	N.A.	97.60
0-60	6150.22	N.A.	99.90
0-80	6156.72	N.A.	100.00
0-90	6156.72	N.A.	100.00
10-90	5633.31	N.A.	91.50
20-40	3851.88	N.A.	62.60
20-50	3958.43	N.A.	64.30
40-70	144.67	N.A.	2.30
60-80	6.50	N.A.	0.10
70-80	0.76	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	6156.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	523.41
10-20	1636.00
20-30	2779.93
30-40	1071.95
40-50	106.55
50-60	32.38
60-70	5.74
70-80	0.76
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

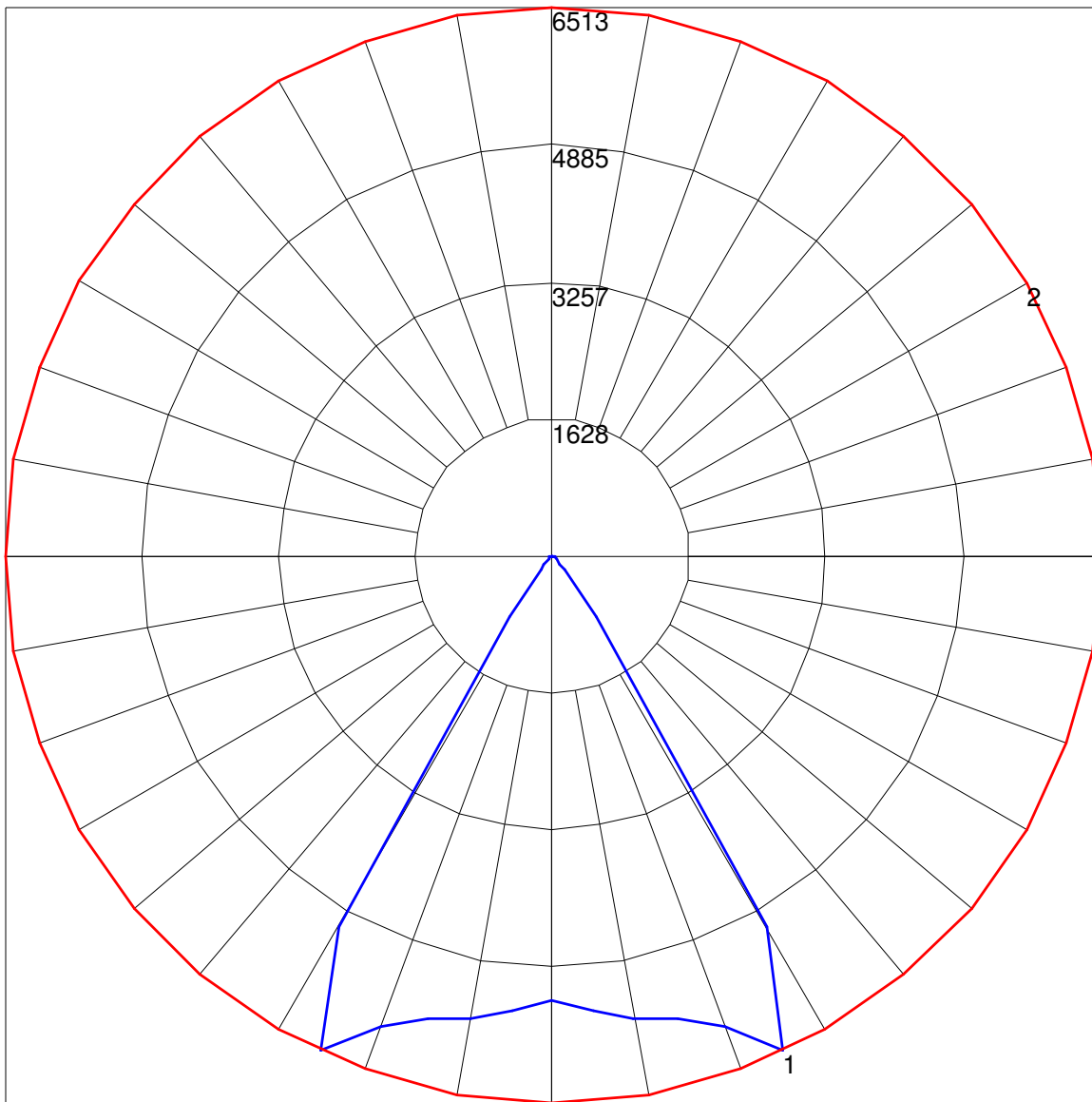
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	714714714714				697697697697				666666666			638638638			612612612			599
1	682665651638				667653640628				628618609			606598590			586579573			563
2	649621598578				636611590572				591574559			574560547			557546536			526
3	618581552529				606572546525				557535516			542524508			529514500			491
4	588544512487				577537507484				524499479			512491473			501483468			459
5	559510476451				549505473449				494466445			484460441			475454437			429
6	531479445420				523475442418				466437415			457432412			450427410			401
7	505451416391				497447414390				440410388			432406386			426402384			376
8	481425390366				474422388365				415385364			409382362			403379361			353
9	458401367343				451398365343				393363341			387360340			382357339			331
10	436379345322				430377344322				372342321			367340320			363338319			312

POLAR GRAPH



Maximum Candela = 6513.166 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.)