



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-P28-835-POEX-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-P28-835-DIM-OW-OF-CS

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2837
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	25
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	8603	8603	8603
55	2651	2651	2651
65	327	327	327
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2434.812
5	2507.453
10	2582.784
15	2636.592
20	2753.624
25	3001.141
30	2351.409
35	412.976
40	107.616
45	59.189
50	30.940
55	14.797
60	6.726
65	1.345
70	1.345
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	995.02	N.A.	35.10
0-30	2275.95	N.A.	80.20
0-40	2769.89	N.A.	97.60
0-60	2833.9	N.A.	99.90
0-80	2836.9	N.A.	100.00
0-90	2836.9	N.A.	100.00
10-90	2595.72	N.A.	91.50
20-40	1774.87	N.A.	62.60
20-50	1823.97	N.A.	64.30
40-70	66.66	N.A.	2.30
60-80	2.99	N.A.	0.10
70-80	0.35	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	2836.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	241.18
10-20	753.84
20-30	1280.94
30-40	493.93
40-50	49.10
50-60	14.92
60-70	2.64
70-80	0.35
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

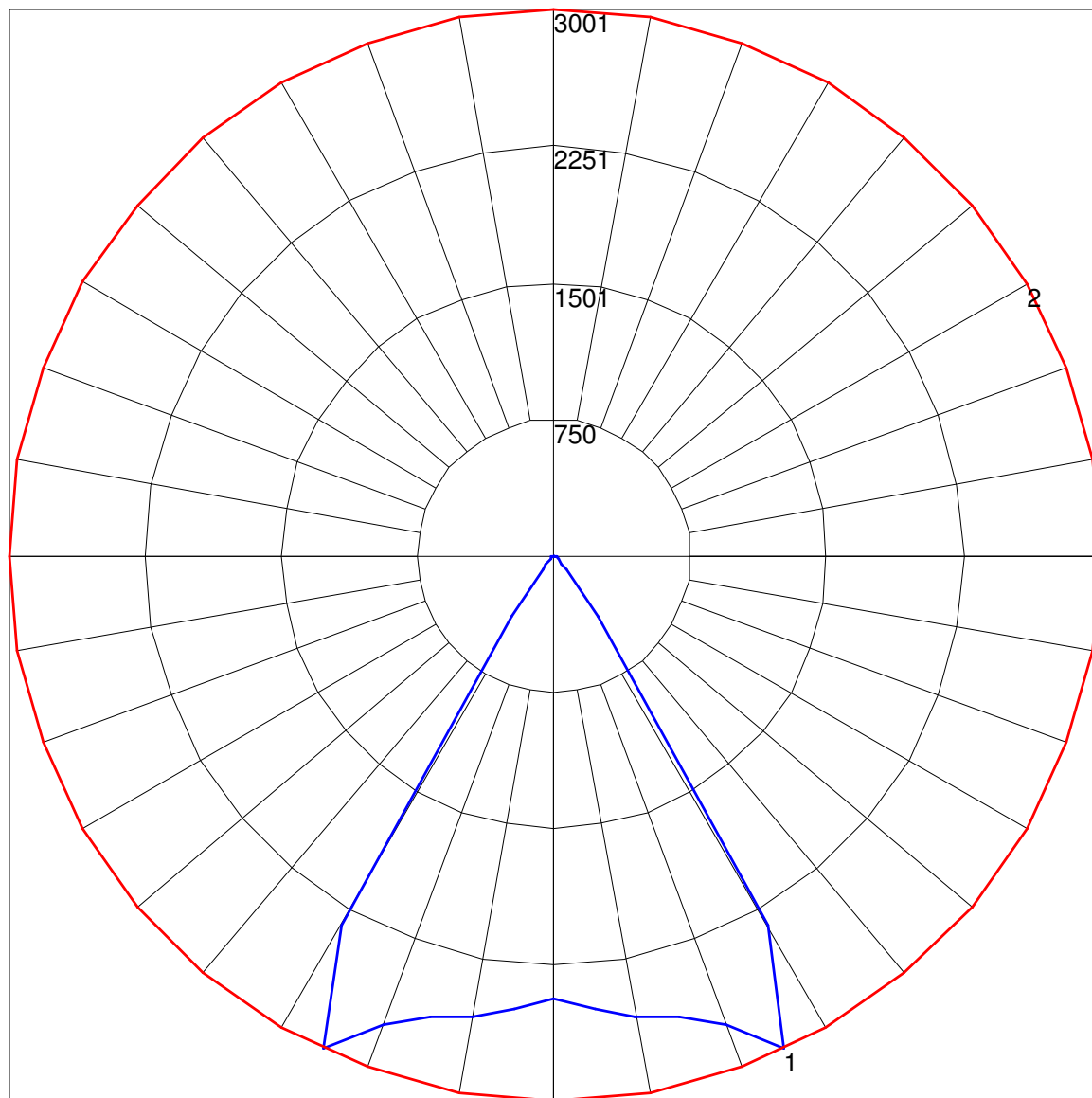
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	160	160	160	160	156	156	156	156	149	149	149	143	143	143	137	137	137	135
1	153	149	146	143	150	146	144	141	141	139	137	136	134	132	131	130	129	126
2	146	139	134	130	143	137	132	128	133	129	125	129	126	123	125	122	120	118
3	139	130	124	119	136	128	122	118	125	120	116	122	118	114	119	115	112	110
4	132	122	115	109	129	121	114	109	118	112	107	115	110	106	112	108	105	103
5	125	114	107	101	123	113	106	101	111	105	100	109	103	99	107	102	98	96
6	119	108	100	94	117	107	99	94	105	98	93	103	97	93	101	96	92	90
7	113	101	93	88	112	100	93	88	99	92	87	97	91	87	96	90	86	84
8	108	95	88	82	106	95	87	82	93	86	82	92	86	81	91	85	81	79
9	103	90	82	77	101	89	82	77	88	81	77	87	81	76	86	80	76	74
10	98	85	77	72	97	85	77	72	83	77	72	82	76	72	81	76	72	70

POLAR GRAPH



Maximum Candela = 3001.141 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.)