



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L15-935-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] 31 MARCH 2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 1 BRIDGELUX V13 LED 4"RND RECESSED DOWNLIGHT

[MORE] OPEN SEMI-SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 4DR-TL-L15-935-DIM-UNV-OW-OF-CS

[LAMPCAT] V13 BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	14
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	3645	3645	3645
55	1123	1123	1123
65	139	139	139
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1031.589
5	1062.365
10	1094.282
15	1117.079
20	1166.664
25	1271.533
30	996.252
35	174.971
40	45.595
45	25.077
50	13.109
55	6.269
60	2.850
65	0.570
70	0.570
75	0.000
80	0.000
85	0.000
90	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4DR-TL-L15-935-DIM-UNV-OW-OF-CS\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	421.57	N.A.	35.10
0-30	964.28	N.A.	80.20
0-40	1173.55	N.A.	97.60
0-60	1200.68	N.A.	99.90
0-80	1201.95	N.A.	100.00
0-90	1201.95	N.A.	100.00
10-90	1099.76	N.A.	91.50
20-40	751.98	N.A.	62.60
20-50	772.78	N.A.	64.30
40-70	28.24	N.A.	2.30
60-80	1.27	N.A.	0.10
70-80	0.15	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	1201.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	102.18
10-20	319.39
20-30	542.71
30-40	209.27
40-50	20.80
50-60	6.32
60-70	1.12
70-80	0.15
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

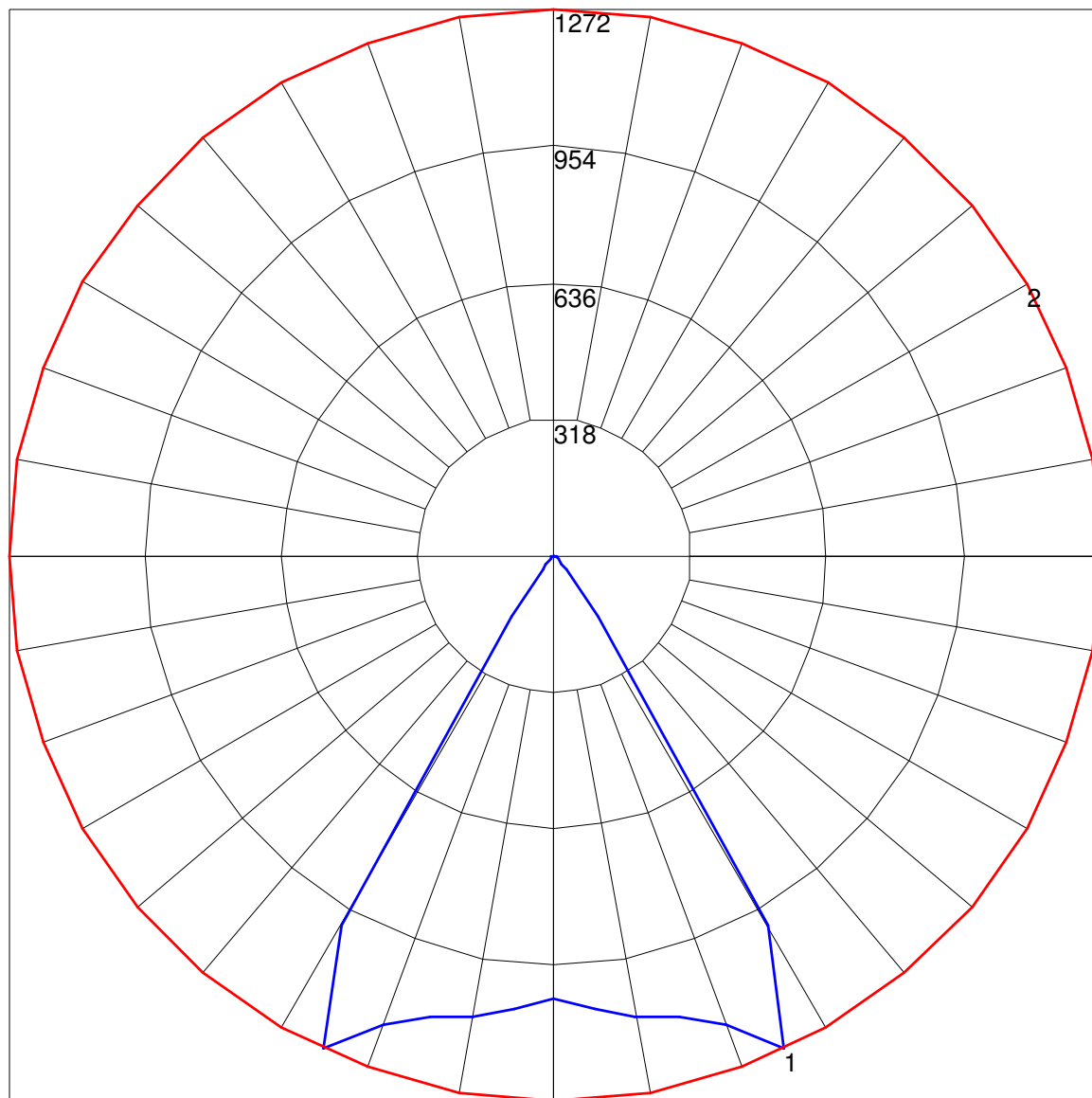
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**UGR TABLE - CORRECTED**

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	3H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	4H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	6H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	8H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	12H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
4H	2H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	3H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	4H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	6H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	8H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	12H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
8H	4H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	6H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	8H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	12H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
12H	4H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	6H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
	8H	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

Maximum UGR = 0.6

POLAR GRAPH



Maximum Candela = 1271.533 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.)