

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L30-935-(L28)-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] 03-19-2025

[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-L30-935-(L28)-DIM-UNV-OW-OF-CS

[_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	2333
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	26.36
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	7074	7074	7074
55	2180	2180	2180
65	269	269	269
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2002.242
5	2061.977
10	2123.925
15	2168.173
20	2264.414
25	2467.957
30	1933.657
35	339.607
40	88.497
45	48.673
50	25.443
55	12.168
60	5.531
65	1.106
70	1.106
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 4DR-TL-L30-935-(L28)-DIM-UNV-OW-OF-CS_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	818.24	N.A.	35.10
0-30	1871.61	N.A.	80.20
0-40	2277.79	N.A.	97.60
0-60	2330.43	N.A.	99.90
0-80	2332.89	N.A.	100.00
0-90	2332.89	N.A.	100.00
10-90	2134.56	N.A.	91.50
20-40	1459.55	N.A.	62.60
20-50	1499.92	N.A.	64.30
40-70	54.82	N.A.	2.30
60-80	2.46	N.A.	0.10
70-80	0.29	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	2332.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.33
10-20	619.91
20-30	1053.37
30-40	406.18
40-50	40.37
50-60	12.27
60-70	2.17
70-80	0.29
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

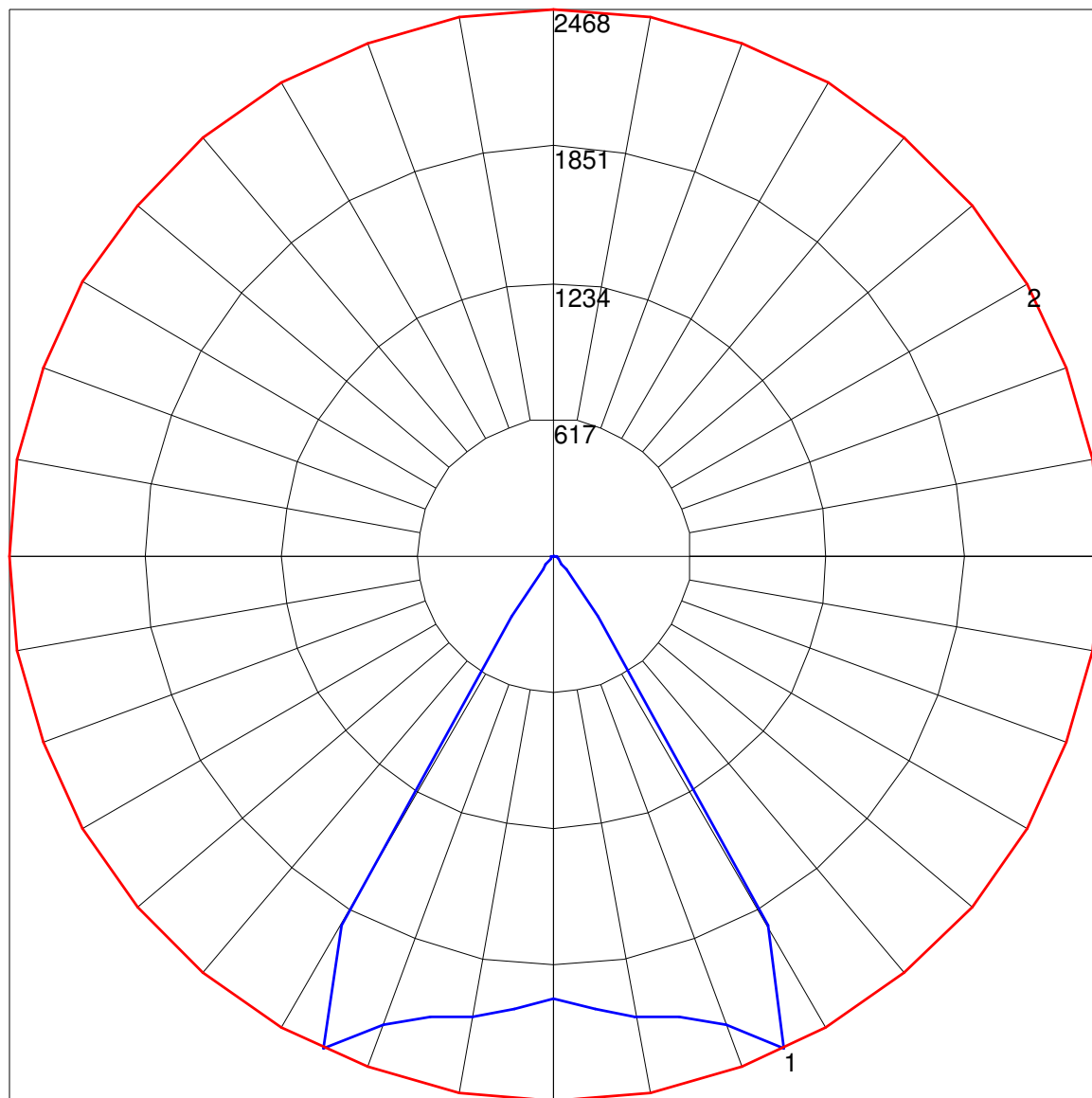
X=2H	Y=2H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	3H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	4H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	6H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	8H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	12H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

UGR Viewed Endwise

4H	2H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	3H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	4H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	6H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	8H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	12H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
8H	4H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	6H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	8H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	12H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
12H	4H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	6H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	8H	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9

Maximum UGR = 2.9

POLAR GRAPH



Maximum Candela = 2467.957 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.)