

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L15-930-DIM-UNV-OW-OF-SPC_.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] 07-212025

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] OPEN SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 4DR-TL-L15-930-DIM-UNV-OW-OF-SPC

[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	1181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	13.9
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	3582	3582	3582
55	1104	1104	1104
65	136	136	136
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1013.825
5	1044.072
10	1075.439
15	1097.844
20	1146.575
25	1249.638
30	979.098
35	171.958
40	44.810
45	24.645
50	12.883
55	6.161
60	2.801
65	0.560
70	0.560
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	414.31	N.A.	35.10
0-30	947.68	N.A.	80.20
0-40	1153.35	N.A.	97.60
0-60	1180.00	N.A.	99.90
0-80	1181.25	N.A.	100.00
0-90	1181.25	N.A.	100.00
10-90	1080.83	N.A.	91.50
20-40	739.03	N.A.	62.60
20-50	759.48	N.A.	64.30
40-70	27.76	N.A.	2.40
60-80	1.25	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	1181.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	100.42
10-20	313.89
20-30	533.37
30-40	205.67
40-50	20.44
50-60	6.21
60-70	1.10
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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56
1	64	62	61	60	62	61	60	59	59	58	57	57	56	55	55	54	54	53
2	61	58	56	54	59	57	55	53	55	54	52	54	52	51	52	51	50	49
3	58	54	52	49	57	53	51	49	52	50	48	51	49	47	49	48	47	46
4	55	51	48	46	54	50	47	45	49	47	45	48	46	44	47	45	44	43
5	52	48	44	42	51	47	44	42	46	44	42	45	43	41	44	42	41	40
6	50	45	42	39	49	44	41	39	44	41	39	43	40	39	42	40	38	37
7	47	42	39	37	46	42	39	36	41	38	36	40	38	36	40	38	36	35
8	45	40	36	34	44	39	36	34	39	36	34	38	36	34	38	35	34	33
9	43	37	34	32	42	37	34	32	37	34	32	36	34	32	36	33	32	31
10	41	35	32	30	40	35	32	30	35	32	30	34	32	30	34	32	30	29

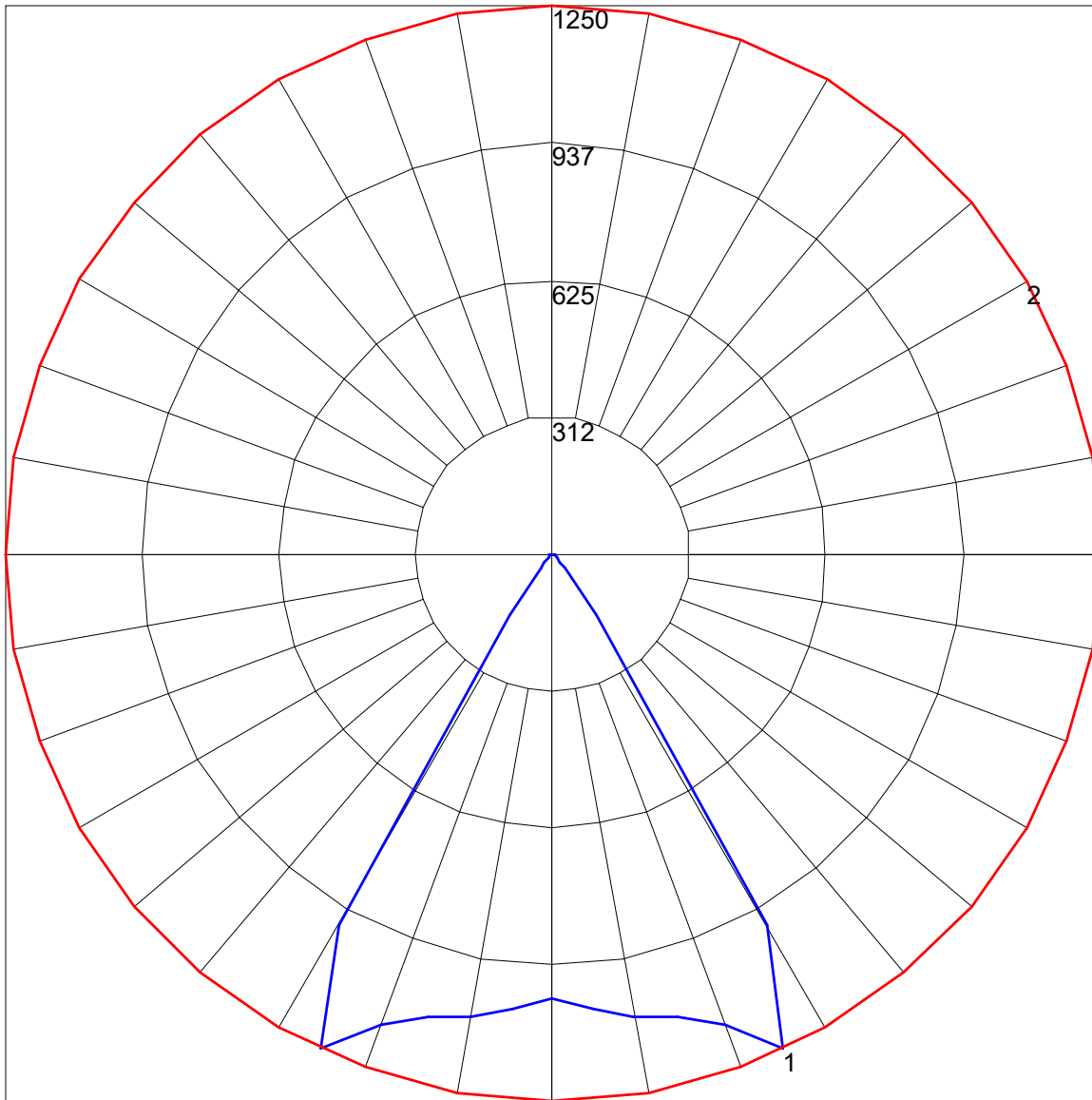
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UGR TABLE - CORRECTED

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	0.5	1.4	0.8	1.7	2.0	0.5	1.4	0.8	1.7	2.0
	3H	0.4	1.2	0.7	1.5	1.9	0.4	1.2	0.7	1.5	1.9
	4H	0.3	1.0	0.7	1.4	1.7	0.3	1.0	0.7	1.4	1.7
	6H	0.1	0.8	0.6	1.2	1.6	0.1	0.8	0.6	1.2	1.6
	8H	0.1	0.7	0.5	1.1	1.5	0.1	0.7	0.5	1.1	1.5
	12H	0.0	0.6	0.4	1.0	1.4	0.0	0.6	0.4	1.0	1.4
4H	2H	0.2	0.9	0.6	1.3	1.7	0.2	0.9	0.6	1.3	1.7
	3H	0.1	0.7	0.5	1.1	1.5	0.1	0.7	0.5	1.1	1.5
	4H	0.0	0.5	0.4	0.9	1.4	0.0	0.5	0.4	0.9	1.4
	6H	0.0	0.3	0.4	0.8	1.2	0.0	0.3	0.4	0.8	1.2
	8H	0.0	0.2	0.3	0.7	1.1	0.0	0.2	0.3	0.7	1.1
	12H	0.0	0.1	0.2	0.6	1.0	0.0	0.1	0.2	0.6	1.0
8H	4H	0.0	0.2	0.3	0.7	1.1	0.0	0.2	0.3	0.7	1.1
	6H	0.0	0.0	0.2	0.5	1.0	0.0	0.0	0.2	0.5	1.0
	8H	0.0	0.0	0.1	0.4	0.9	0.0	0.0	0.1	0.4	0.9
	12H	0.0	0.0	0.1	0.3	0.9	0.0	0.0	0.1	0.3	0.9
12H	4H	0.0	0.1	0.2	0.6	1.1	0.0	0.1	0.2	0.6	1.1
	6H	0.0	0.0	0.1	0.4	0.9	0.0	0.0	0.1	0.4	0.9
	8H	0.0	0.0	0.1	0.3	0.9	0.0	0.0	0.1	0.3	0.9

Maximum UGR = 2.0

POLAR GRAPH



Maximum Candela = 1249.638 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.)