

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM-UNV-OW-OF-SG-TD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 5 JAN, 2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 6" RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] OPEN SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 6DR-TL-L20-835-DIM-UNV-OW-OF-SG-TD

[LAMPCAT] V13 BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	19.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 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	2564	2564	2564
55	893	893	893
65	187	187	187
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1104.356
5	1042.929
10	1147.949
15	1145.967
20	1196.826
25	1309.111
30	1285.993
35	398.942
40	54.821
45	30.383
50	17.833
55	8.586
60	4.623
65	1.321
70	0.000
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	433.20	N.A.	31.30
0-30	1024.44	N.A.	74.00
0-40	1348.26	N.A.	97.40
0-60	1382.58	N.A.	99.90
0-80	1384.36	N.A.	100.00
0-90	1384.36	N.A.	100.00
10-90	1280.31	N.A.	92.50
20-40	915.06	N.A.	66.10
20-50	940.58	N.A.	67.90
40-70	36.10	N.A.	2.60
60-80	1.78	N.A.	0.10
70-80	0.00	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	1384.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.04
10-20	329.15
20-30	591.24
30-40	323.83
40-50	25.52
50-60	8.80
60-70	1.78
70-80	0.00
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	79	79	79	79	77	77	77	77	73	73	73	70	70	70	67	67	67	66
1	75	73	72	70	73	72	70	69	69	68	67	67	66	65	64	64	63	62
2	71	68	65	63	70	67	65	62	65	63	61	63	61	60	61	60	59	57
3	68	63	60	58	66	63	60	57	61	58	56	59	57	55	58	56	54	53
4	64	59	56	53	63	58	55	52	57	54	52	56	53	51	55	52	51	50
5	61	55	52	49	60	55	51	48	54	50	48	52	50	48	51	49	47	46
6	58	52	48	45	57	51	48	45	50	47	45	49	46	44	49	46	44	43
7	55	49	45	42	54	48	44	42	47	44	41	47	43	41	46	43	41	40
8	52	46	42	39	51	45	41	39	45	41	39	44	41	38	43	40	38	37
9	49	43	39	36	49	43	39	36	42	39	36	41	38	36	41	38	36	35
10	47	40	37	34	46	40	36	34	40	36	34	39	36	34	39	36	34	33

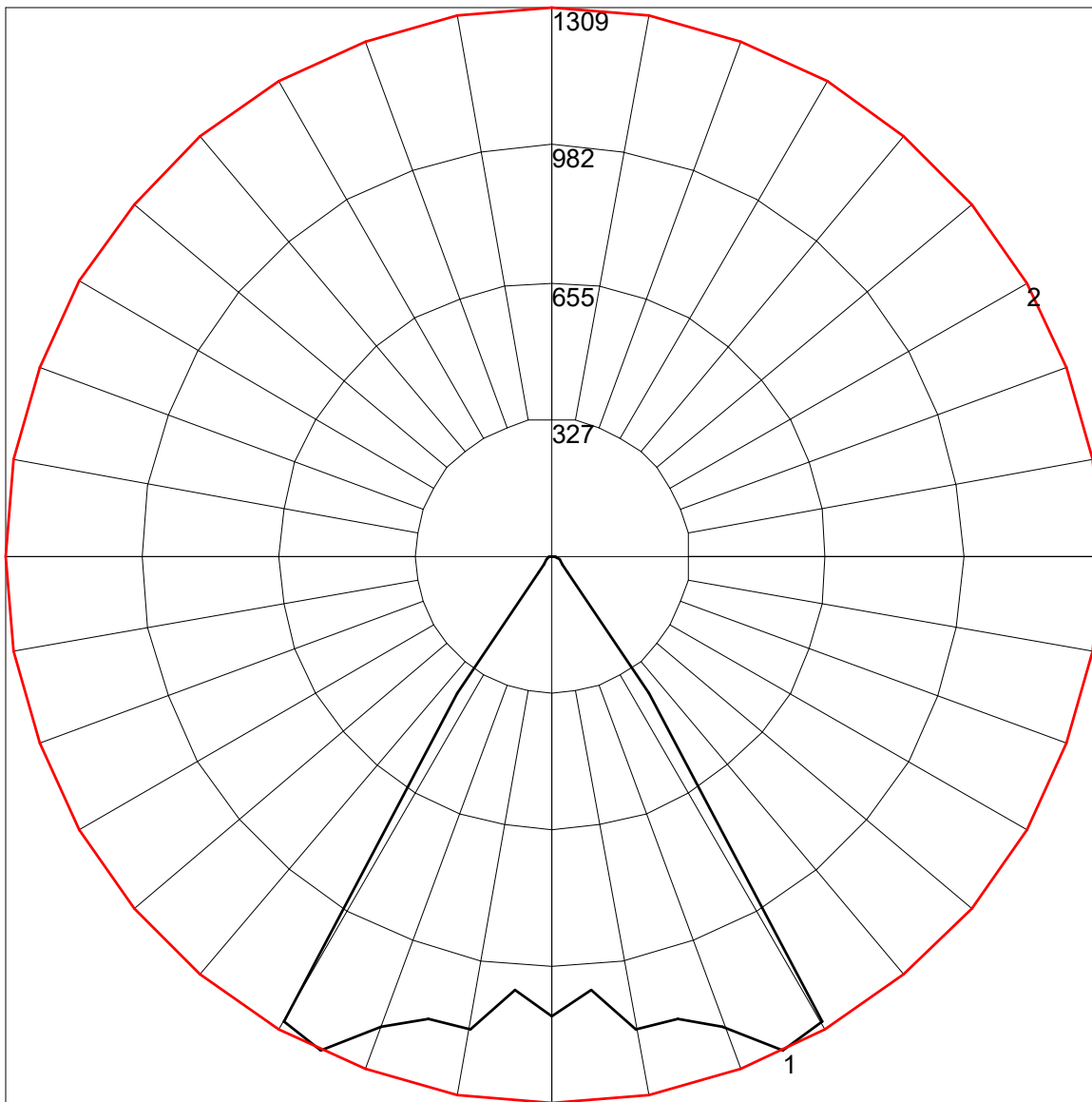
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UGR TABLE - CORRECTED

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	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	3H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	4H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	6H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	8H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	12H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
4H	2H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	3H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	4H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	6H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	8H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	12H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
8H	4H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	6H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	8H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	12H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
12H	4H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	6H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	8H	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6

Maximum UGR = 2.6

POLAR GRAPH



Maximum Candela = 1309.111 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)