



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-B40DTW-DIMTW-UNV-OW-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20687.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 03-30-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6" RND LED RECESSED CAST HOUSING DOWNLIGHT

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

[LUMCAT] 6DR-TL-L20-B40DTW-DIMTW-UNV-OW-OF-CS

[LAMPCAT] BIOS GEN 2 TUNABLE COB

[\_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	1689
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	24.3
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	3128	3128	3128
55	1090	1090	1090
65	228	228	228
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1347.332
5	1272.391
10	1400.516
15	1398.099
20	1460.147
25	1597.136
30	1568.933
35	486.716
40	66.883
45	37.068
50	21.757
55	10.476
60	5.641
65	1.612
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	528.51	N.A.	31.30
0-30	1249.83	N.A.	74.00
0-40	1644.9	N.A.	97.40
0-60	1686.77	N.A.	99.90
0-80	1688.94	N.A.	100.00
0-90	1688.94	N.A.	100.00
10-90	1562.00	N.A.	92.50
20-40	1116.39	N.A.	66.10
20-50	1147.53	N.A.	67.90
40-70	44.04	N.A.	2.60
60-80	2.17	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	1688.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	126.94
10-20	401.57
20-30	721.32
30-40	395.07
40-50	31.13
50-60	10.73
60-70	2.17
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	79	84	81	78	83	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	67	62	59	66	62	58	65	61	58	57
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50

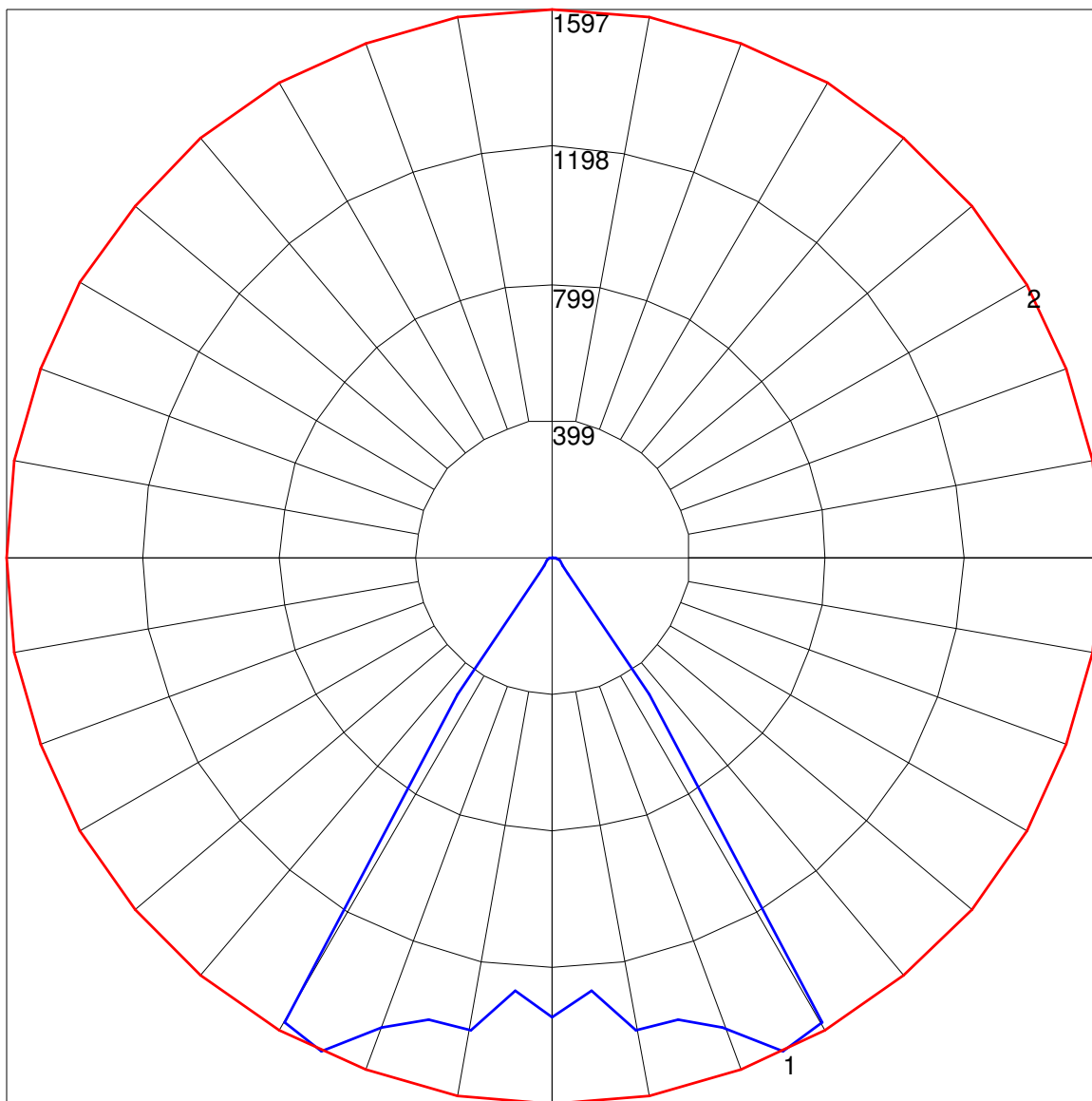
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**UGR TABLE - CORRECTED**

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	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	3H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
4H	2H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	3H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
8H	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	12H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
12H	4H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	6H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	8H	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

Maximum UGR = 1.8

POLAR GRAPH



Maximum Candela = 1597.136 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.)