



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-840-(L18)-DIM1-UNV-OW-OF-CS-WETCC_.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] 21 APR 2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 6" RND RECESSED LED DOWNLIGHT

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

[LUMCAT] 6DR-TL-L20-840-(L18)-DIM1-UNV-OW-OF-CS-WETCC

[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	1552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	17
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	2875	2875	2875
55	1002	1002	1002
65	209	209	209
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1238.046
5	1169.183
10	1286.916
15	1284.695
20	1341.710
25	1467.588
30	1441.672
35	447.237
40	61.458
45	34.061
50	19.992
55	9.626
60	5.183
65	1.481
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L20-840-(L18)-DIM1-UNV-OW-OF-CS-WETCC_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	485.64	N.A.	31.30
0-30	1148.45	N.A.	74.00
0-40	1511.48	N.A.	97.40
0-60	1549.95	N.A.	99.90
0-80	1551.95	N.A.	100.00
0-90	1551.95	N.A.	100.00
10-90	1435.31	N.A.	92.50
20-40	1025.84	N.A.	66.10
20-50	1054.45	N.A.	67.90
40-70	40.47	N.A.	2.60
60-80	2.00	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	1551.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.64
10-20	369.00
20-30	662.81
30-40	363.03
40-50	28.61
50-60	9.86
60-70	2.00
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

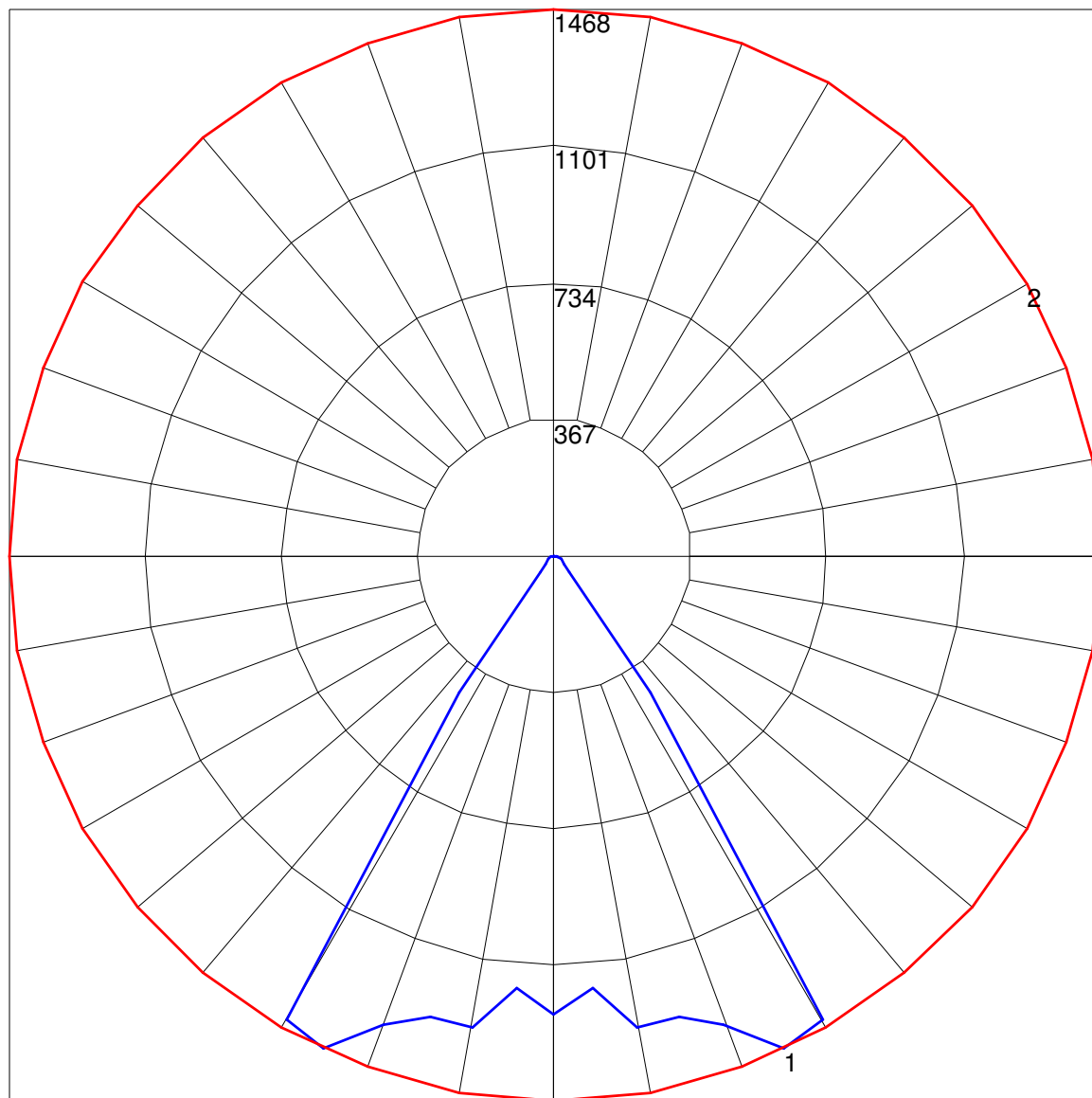
Reflectances

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	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	3H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4H	2H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	3H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
8H	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	12H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
12H	4H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	6H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	8H	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Maximum UGR = 1.5

POLAR GRAPH



Maximum Candela = 1467.588 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.)