

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-940-(L17)-DIM1-UNV-OW-OF-CS-MWT_.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] 07/11/2023

[MANUFAC] WILLIAMS INDOOR

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

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

[LUMCAT] 6DR-TL-L20-940-(L17)-DIM1-UNV-OW-OF-CS-MWT

[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	1476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	16.07
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	2734	2734	2734
55	953	953	953
65	199	199	199
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1177.420
5	1111.929
10	1223.897
15	1221.784
20	1276.008
25	1395.721
30	1371.074
35	425.336
40	58.448
45	32.393
50	19.013
55	9.155
60	4.929
65	1.408
70	0.000
75	0.000
80	0.000
85	0.000
90	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6DR-TL-L20-940-(L17)-DIM1-UNV-OW-OF-CS-MWT_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	461.86	N.A.	31.30
0-30	1092.21	N.A.	74.00
0-40	1437.46	N.A.	97.40
0-60	1474.05	N.A.	99.90
0-80	1475.95	N.A.	100.00
0-90	1475.95	N.A.	100.00
10-90	1365.02	N.A.	92.50
20-40	975.60	N.A.	66.10
20-50	1002.81	N.A.	67.90
40-70	38.48	N.A.	2.60
60-80	1.90	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	1475.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.93
10-20	350.93
20-30	630.36
30-40	345.25
40-50	27.21
50-60	9.38
60-70	1.90
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

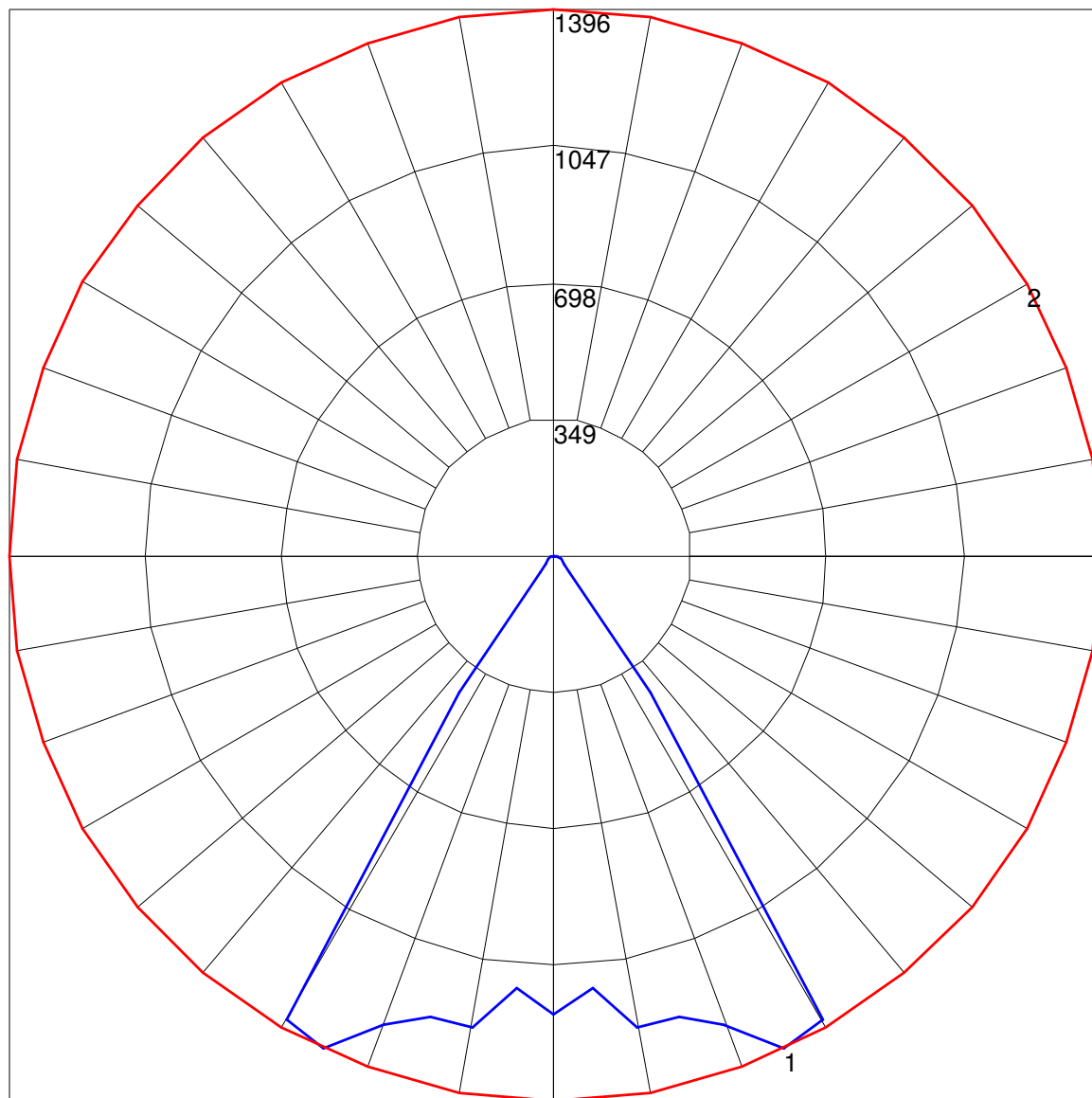
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	3H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	4H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	6H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	8H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	12H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
4H	2H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	3H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	4H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	6H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	8H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	12H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
8H	4H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	6H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	8H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	12H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
12H	4H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	6H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	8H	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4

Maximum UGR = 1.4

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POLAR GRAPH



Maximum Candela = 1395.721 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.)