



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L20-835-DIM-UNV-RW-OF-CS-AD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20733.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 01-24-2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] BRIDGELUX VERO13 LED 6"RND RECESSED CAST HOUSING DOWNLIGHT
 [MORE] WHITE REFL w/MICRO-PRISM GLASS LENS & SEMI-SPEC CONE
 [LUMCAT] 6DR-TL-L20-835-DIM-UNV-RW-OF-CS-AD
 [LAMPCAT] BRIDGELUX 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	1228
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	19
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.80
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	13724	13724	13724
55	9409	9409	9409
65	3632	3632	3632
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1876.258
5	1868.634
10	1134.225
15	841.140
20	831.822
25	825.045
30	676.808
35	270.215
40	190.591
45	166.026
50	133.837
55	92.331
60	55.907
65	26.259
70	8.471
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	407.24	N.A.	33.20
0-30	771.08	N.A.	62.80
0-40	987.42	N.A.	80.40
0-60	1197.48	N.A.	97.50
0-80	1228.46	N.A.	100.00
0-90	1228.46	N.A.	100.00
10-90	1076.27	N.A.	87.60
20-40	580.17	N.A.	47.20
20-50	706.80	N.A.	57.50
40-70	238.83	N.A.	19.40
60-80	30.98	N.A.	2.50
70-80	2.21	N.A.	0.20
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	1228.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	152.19
10-20	255.05
20-30	363.84
30-40	216.34
40-50	126.62
50-60	83.44
60-70	28.77
70-80	2.21
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	56	51	71	61	55	51	60	55	51	60	54	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

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UGR TABLE - CORRECTED

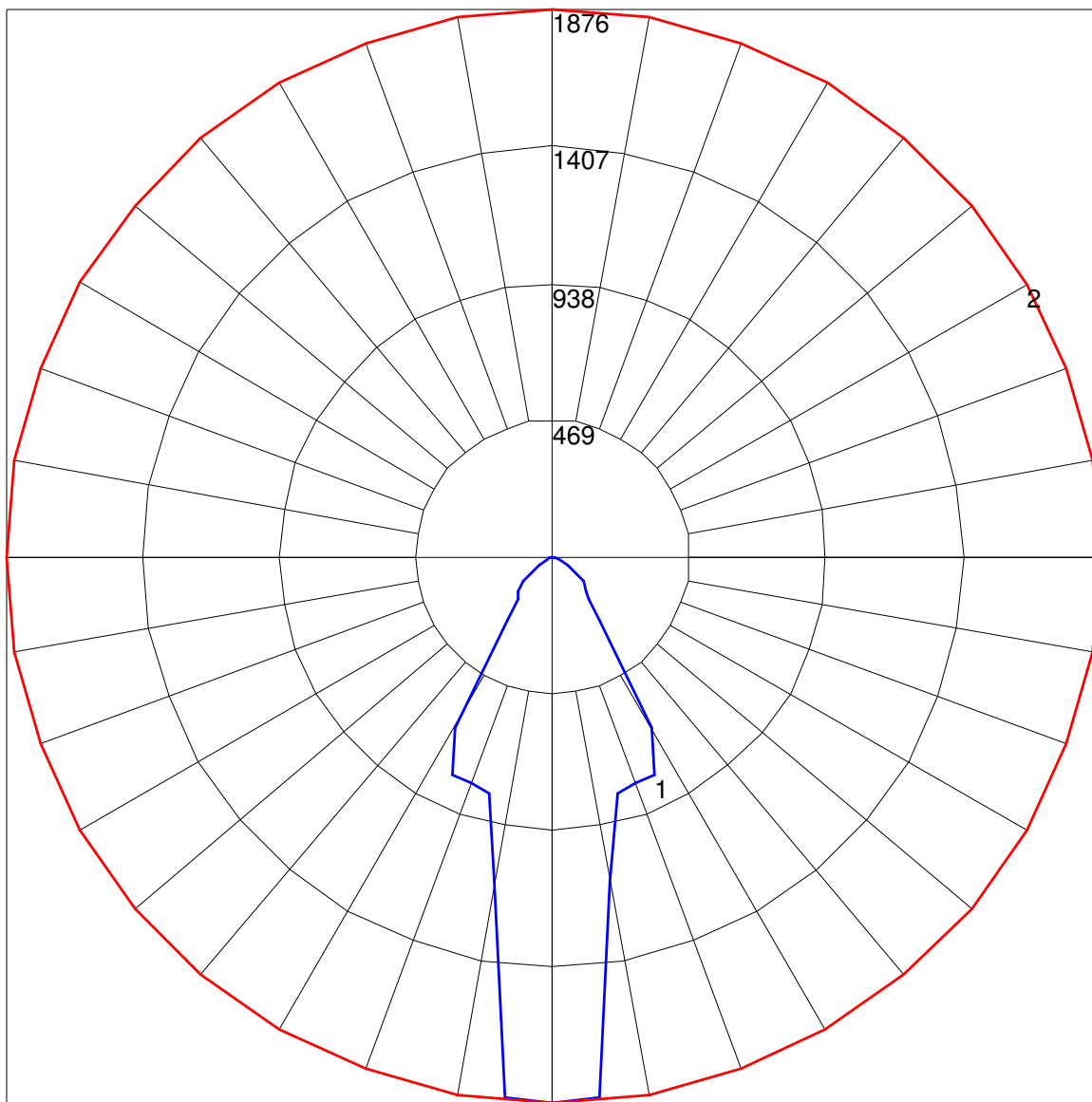
Reflectances

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	15.6	16.8	16.0	17.1	17.4	15.6	16.8	16.0	17.1	17.4
	3H	15.7	16.7	16.0	17.0	17.4	15.7	16.7	16.0	17.0	17.4
	4H	15.6	16.5	16.0	16.9	17.3	15.6	16.5	16.0	16.9	17.3
	6H	15.5	16.3	15.9	16.7	17.1	15.5	16.3	15.9	16.7	17.1
	8H	15.4	16.2	15.9	16.6	17.0	15.4	16.2	15.9	16.6	17.0
	12H	15.4	16.1	15.8	16.5	17.0	15.4	16.1	15.8	16.5	17.0
4H	2H	15.6	16.5	16.0	16.9	17.3	15.6	16.5	16.0	16.9	17.3
	3H	15.6	16.4	16.1	16.8	17.2	15.6	16.4	16.1	16.8	17.2
	4H	15.5	16.2	16.0	16.6	17.1	15.5	16.2	16.0	16.6	17.1
	6H	15.4	16.0	15.9	16.5	16.9	15.4	16.0	15.9	16.5	16.9
	8H	15.4	15.9	15.8	16.4	16.8	15.4	15.9	15.8	16.4	16.8
	12H	15.3	15.8	15.8	16.3	16.8	15.3	15.8	15.8	16.3	16.8
8H	4H	15.4	15.9	15.8	16.4	16.8	15.4	15.9	15.8	16.4	16.8
	6H	15.3	15.7	15.8	16.2	16.7	15.3	15.7	15.8	16.2	16.7
	8H	15.2	15.6	15.7	16.1	16.6	15.2	15.6	15.7	16.1	16.6
	12H	15.2	15.5	15.7	16.0	16.6	15.2	15.5	15.7	16.0	16.6
12H	4H	15.3	15.8	15.8	16.3	16.8	15.3	15.8	15.8	16.3	16.8
	6H	15.2	15.6	15.7	16.1	16.6	15.2	15.6	15.7	16.1	16.6
	8H	15.2	15.5	15.7	16.0	16.6	15.2	15.5	15.7	16.0	16.6

Maximum UGR = 17.4

POLAR GRAPH



Maximum Candela = 1876.258 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)