



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L10-840-DIM-UNV-RW-OF-CS-AD_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 20734.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 03-10-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] BRIDGELUX VERO13 LED 6"RND RECESSED CAST HOUSING DOWNLIGHT
 [MORE] WHITE REFL w/DIFFUSE ACRYLIC LENS & SEMI-SPEC CONE
 [LUMCAT] 6DR-TL-L10-840-DIM-UNV-RW-OF-CS-AD
 [LAMPCAT] BRIDGELUX V13 BXRE-40E2000
 [_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	615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	8.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.94
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	9939	9939	9939
55	6361	6361	6361
65	2831	2831	2831
75	116	116	116
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	512.159
5	500.391
10	472.250
15	428.760
20	376.061
25	317.221
30	259.917
35	204.659
40	161.169
45	120.237
50	88.003
55	62.421
60	39.397
65	20.466
70	5.628
75	0.512
80	0.000
85	0.000
90	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	166.68	N.A.	27.10
0-30	312.42	N.A.	50.80
0-40	441.87	N.A.	71.80
0-60	592.30	N.A.	96.30
0-80	615.20	N.A.	100.00
0-90	615.20	N.A.	100.00
10-90	568.30	N.A.	92.40
20-40	275.20	N.A.	44.70
20-50	369.38	N.A.	60.00
40-70	171.58	N.A.	27.90
60-80	22.90	N.A.	3.70
70-80	1.74	N.A.	0.30
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	615.20	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.90
10-20	119.78
20-30	145.75
30-40	129.45
40-50	94.18
50-60	56.24
60-70	21.16
70-80	1.74
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	76	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	56	52	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

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UGR TABLE - CORRECTED

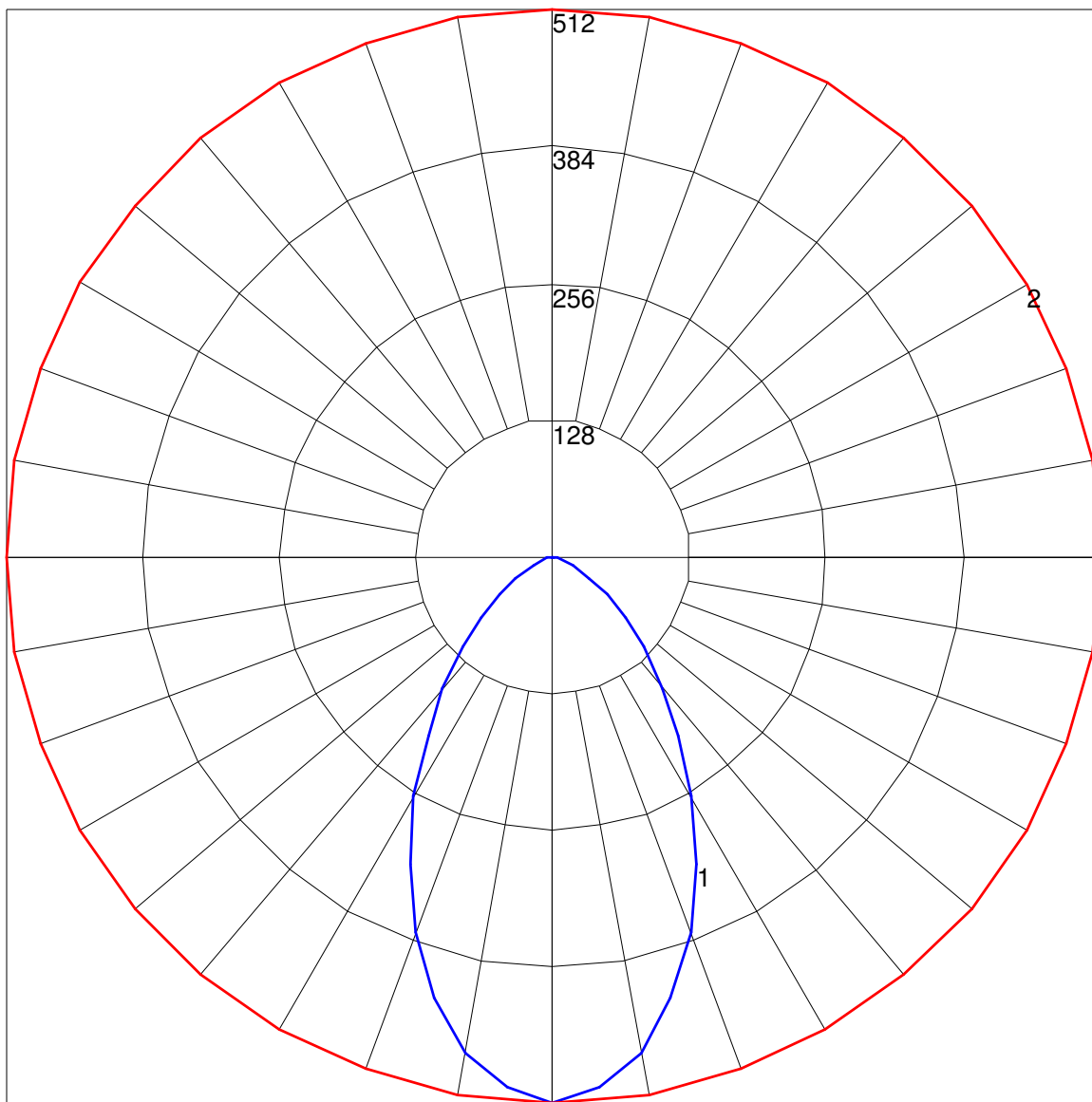
Reflectances

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	15.3	16.5	15.6	16.8	17.2	15.3	16.5	15.6	16.8	17.2
	3H	15.4	16.5	15.8	16.8	17.2	15.4	16.5	15.8	16.8	17.2
	4H	15.3	16.3	15.7	16.7	17.1	15.3	16.3	15.7	16.7	17.1
	6H	15.2	16.2	15.6	16.5	16.9	15.2	16.2	15.6	16.5	16.9
	8H	15.2	16.1	15.6	16.4	16.9	15.2	16.1	15.6	16.4	16.9
	12H	15.1	16.0	15.6	16.4	16.8	15.1	16.0	15.6	16.4	16.8
4H	2H	15.3	16.4	15.7	16.7	17.1	15.3	16.4	15.7	16.7	17.1
	3H	15.4	16.3	15.8	16.7	17.1	15.4	16.3	15.8	16.7	17.1
	4H	15.3	16.1	15.8	16.5	16.9	15.3	16.1	15.8	16.5	16.9
	6H	15.3	15.9	15.7	16.3	16.8	15.3	15.9	15.7	16.3	16.8
	8H	15.2	15.8	15.7	16.2	16.7	15.2	15.8	15.7	16.2	16.7
	12H	15.1	15.7	15.6	16.1	16.6	15.1	15.7	15.6	16.1	16.6
8H	4H	15.2	15.8	15.7	16.2	16.7	15.2	15.8	15.7	16.2	16.7
	6H	15.1	15.6	15.6	16.1	16.6	15.1	15.6	15.6	16.1	16.6
	8H	15.0	15.5	15.5	16.0	16.5	15.0	15.5	15.5	16.0	16.5
	12H	15.0	15.4	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4
12H	4H	15.1	15.7	15.6	16.2	16.6	15.1	15.7	15.6	16.2	16.6
	6H	15.0	15.5	15.6	15.9	16.5	15.0	15.5	15.6	15.9	16.5
	8H	15.0	15.4	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4

Maximum UGR = 17.2

POLAR GRAPH



Maximum Candela = 512.159 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.)