



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L15-835-XXX-DIM-UNV-OW-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20685.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 26-JAN-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 1 BRIDGELUX V13 LED 6" ROUND SURFACE CYLINDER

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

[LUMCAT] 6CR-TL-L15-835-xxx-DIM-UNV-OW-CS-xx

[LAMPCAT] V13 BXRE-40E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	13.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	0.94
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.37 ft (Diameter)
Luminous Width (90-270)	0.37 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	4445	4445	4445
55	1370	1370	1370
65	169	169	169
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1258.160
5	1295.697
10	1334.623
15	1362.428
20	1422.903
25	1550.804
30	1215.063
35	213.401
40	55.609
45	30.585
50	15.988
55	7.646
60	3.476
65	0.695
70	0.695
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	514.16	N.A.	35.10
0-30	1176.07	N.A.	80.20
0-40	1431.31	N.A.	97.60
0-60	1464.39	N.A.	99.90
0-80	1465.93	N.A.	100.00
0-90	1465.93	N.A.	100.00
10-90	1341.31	N.A.	91.50
20-40	917.14	N.A.	62.60
20-50	942.51	N.A.	64.30
40-70	34.45	N.A.	2.40
60-80	1.55	N.A.	0.10
70-80	0.18	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	1465.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	124.63
10-20	389.54
20-30	661.91
30-40	255.23
40-50	25.37
50-60	7.71
60-70	1.37
70-80	0.18
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	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	85	82	79	84	81	78	77
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	76	67	61	57	75	66	61	57	66	60	57	65	60	57	64	60	57	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

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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

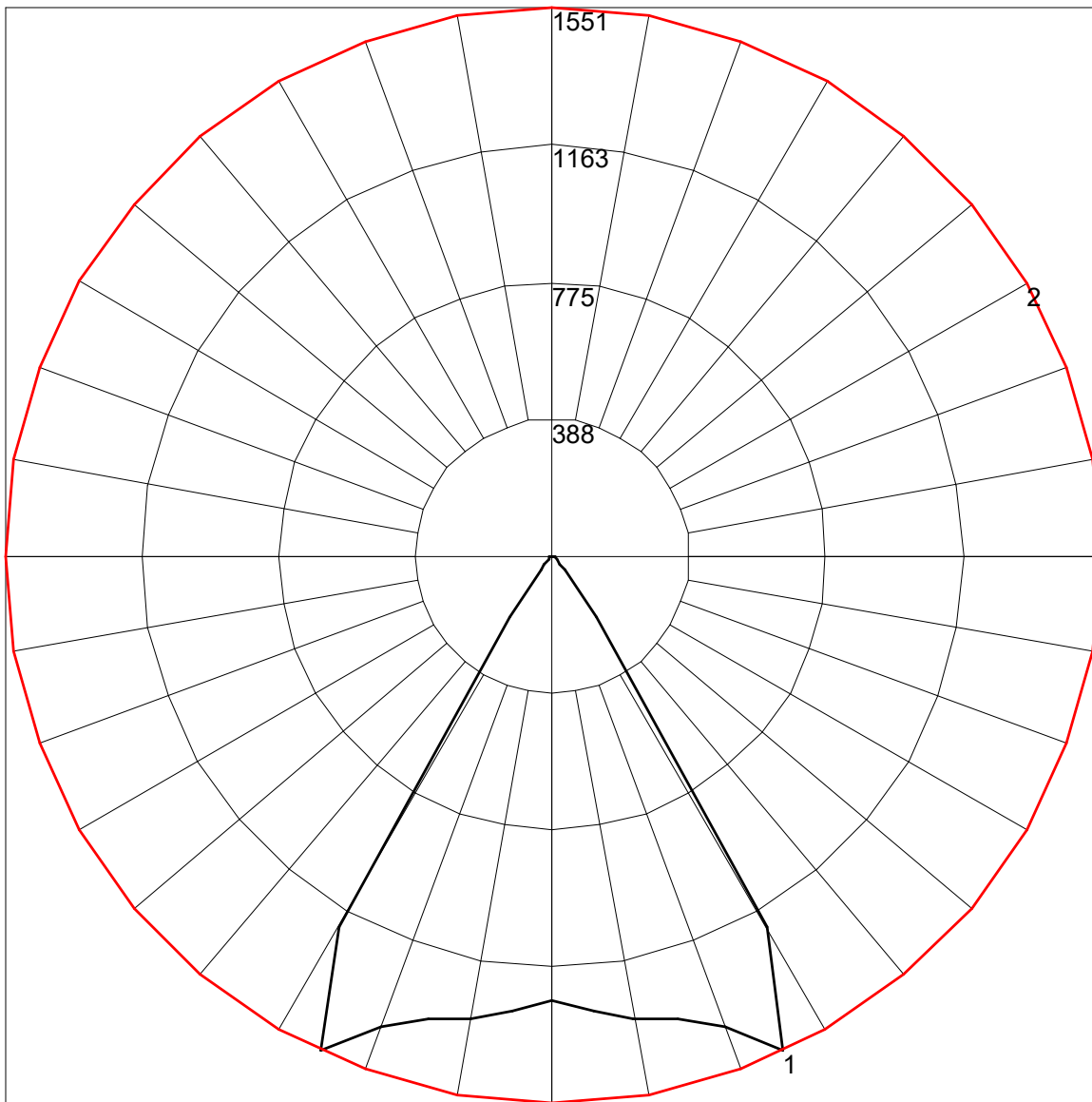
X=2H	Y=2H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	3H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	4H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	6H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	8H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

UGR Viewed Endwise

4H	2H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	3H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	4H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	6H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	8H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
8H	4H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	6H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	8H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	12H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
12H	4H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	6H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	8H	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3

Maximum UGR = 1.3

POLAR GRAPH



Maximum Candela = 1550.804 Located At Horizontal Angle = 0, Vertical Angle = 25

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)