



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L15-940-XXX-DIM-UNV-RW-CS-XX_.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] 1-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8" ROUND SURFACE CYLINDER

[MORE] WHITE REFL w/MICRO-PRISM GLASS LENS & SEMI-SPEC CONE

[LUMCAT] 8CR-TL-L15-940-xxx-DIM1-UNV-RW-CS-xx

[LAMPCAT] BRIDGELUX V13 BXRE-35e2000

[_SEARCH_SOURCE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	13.8
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	10230	10230	10230
55	7014	7014	7014
65	2707	2707	2707
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1398.658
5	1392.975
10	845.509
15	627.028
20	620.082
25	615.031
30	504.527
35	201.432
40	142.076
45	123.764
50	99.769
55	68.828
60	41.676
65	19.575
70	6.314
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	303.58	N.A.	33.20
0-30	574.80	N.A.	62.80
0-40	736.07	N.A.	80.40
0-60	892.66	N.A.	97.50
0-80	915.76	N.A.	100.00
0-90	915.76	N.A.	100.00
10-90	802.31	N.A.	87.60
20-40	432.49	N.A.	47.20
20-50	526.88	N.A.	57.50
40-70	178.04	N.A.	19.40
60-80	23.10	N.A.	2.50
70-80	1.65	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	915.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.45
10-20	190.13
20-30	271.22
30-40	161.27
40-50	94.39
50-60	62.20
60-70	21.45
70-80	1.65
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	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	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	77	72	68	76	71	68	74	70	67	65
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	69	63	59	68	62	58	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	55	63	58	54	62	57	54	53
9	72	62	56	51	71	61	55	51	60	55	51	59	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

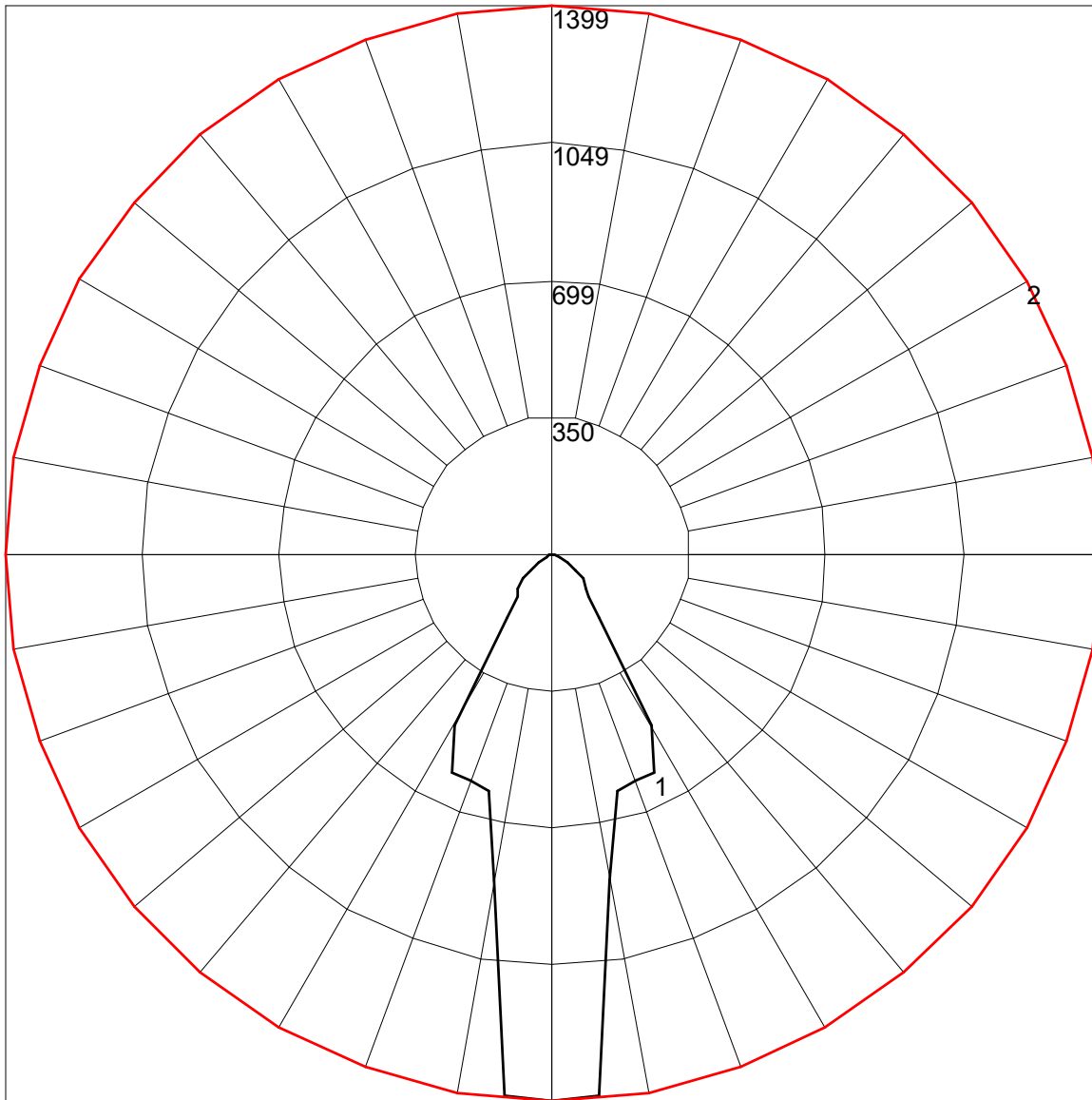
X=2H	Y=2H	14.6	15.8	15.0	16.1	16.4	14.6	15.8	15.0	16.1	16.4
	3H	14.7	15.7	15.0	16.0	16.4	14.7	15.7	15.0	16.0	16.4
	4H	14.6	15.5	15.0	15.9	16.2	14.6	15.5	15.0	15.9	16.2
	6H	14.5	15.3	14.9	15.7	16.1	14.5	15.3	14.9	15.7	16.1
	8H	14.4	15.2	14.9	15.6	16.0	14.4	15.2	14.9	15.6	16.0
	12H	14.4	15.1	14.8	15.5	16.0	14.4	15.1	14.8	15.5	16.0

UGR Viewed Endwise

4H	2H	14.6	15.5	15.0	15.9	16.2	14.6	15.5	15.0	15.9	16.2
	3H	14.6	15.4	15.1	15.8	16.2	14.6	15.4	15.1	15.8	16.2
	4H	14.5	15.2	15.0	15.6	16.1	14.5	15.2	15.0	15.6	16.1
	6H	14.4	15.0	14.9	15.5	15.9	14.4	15.0	14.9	15.5	15.9
	8H	14.4	14.9	14.8	15.4	15.8	14.4	14.9	14.8	15.4	15.8
	12H	14.3	14.8	14.8	15.3	15.7	14.3	14.8	14.8	15.3	15.7
8H	4H	14.4	14.9	14.8	15.4	15.8	14.4	14.9	14.8	15.4	15.8
	6H	14.3	14.7	14.8	15.2	15.7	14.3	14.7	14.8	15.2	15.7
	8H	14.2	14.6	14.7	15.1	15.6	14.2	14.6	14.7	15.1	15.6
	12H	14.1	14.5	14.6	15.0	15.5	14.1	14.5	14.6	15.0	15.5
12H	4H	14.3	14.8	14.8	15.3	15.7	14.3	14.8	14.8	15.3	15.7
	6H	14.2	14.6	14.7	15.1	15.6	14.2	14.6	14.7	15.1	15.6
	8H	14.1	14.5	14.6	15.0	15.5	14.1	14.5	14.6	15.0	15.5

Maximum UGR = 16.4

POLAR GRAPH



Maximum Candela = 1398.658 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)