



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L30-940-XXX-DIM1-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 64836

[LUMINAIRE] 8" ROUND SURFACE CYLINDER

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

[LUMCAT] 8CR-TL-L30-940-xxx-DIM1-UNV-RW-CS-xx

[LAMPCAT] BRIDGELUX V13 BXRE-35e2000

[\_SEARCH\_SOURCETYPE] 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	1815
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	26.9
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	20273	20273	20273
55	13899	13899	13899
65	5365	5365	5365
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2771.652
5	2760.390
10	1675.504
15	1242.551
20	1228.786
25	1218.776
30	999.797
35	399.168
40	281.545
45	245.257
50	197.707
55	136.393
60	82.586
65	38.791
70	12.513
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	601.59	N.A.	33.20
0-30	1139.06	N.A.	62.80
0-40	1458.64	N.A.	80.40
0-60	1768.95	N.A.	97.50
0-80	1814.71	N.A.	100.00
0-90	1814.71	N.A.	100.00
10-90	1589.89	N.A.	87.60
20-40	857.05	N.A.	47.20
20-50	1044.09	N.A.	57.50
40-70	352.81	N.A.	19.40
60-80	45.77	N.A.	2.50
70-80	3.27	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	1814.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	224.82
10-20	376.77
20-30	537.47
30-40	319.58
40-50	187.05
50-60	123.26
60-70	42.50
70-80	3.27
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

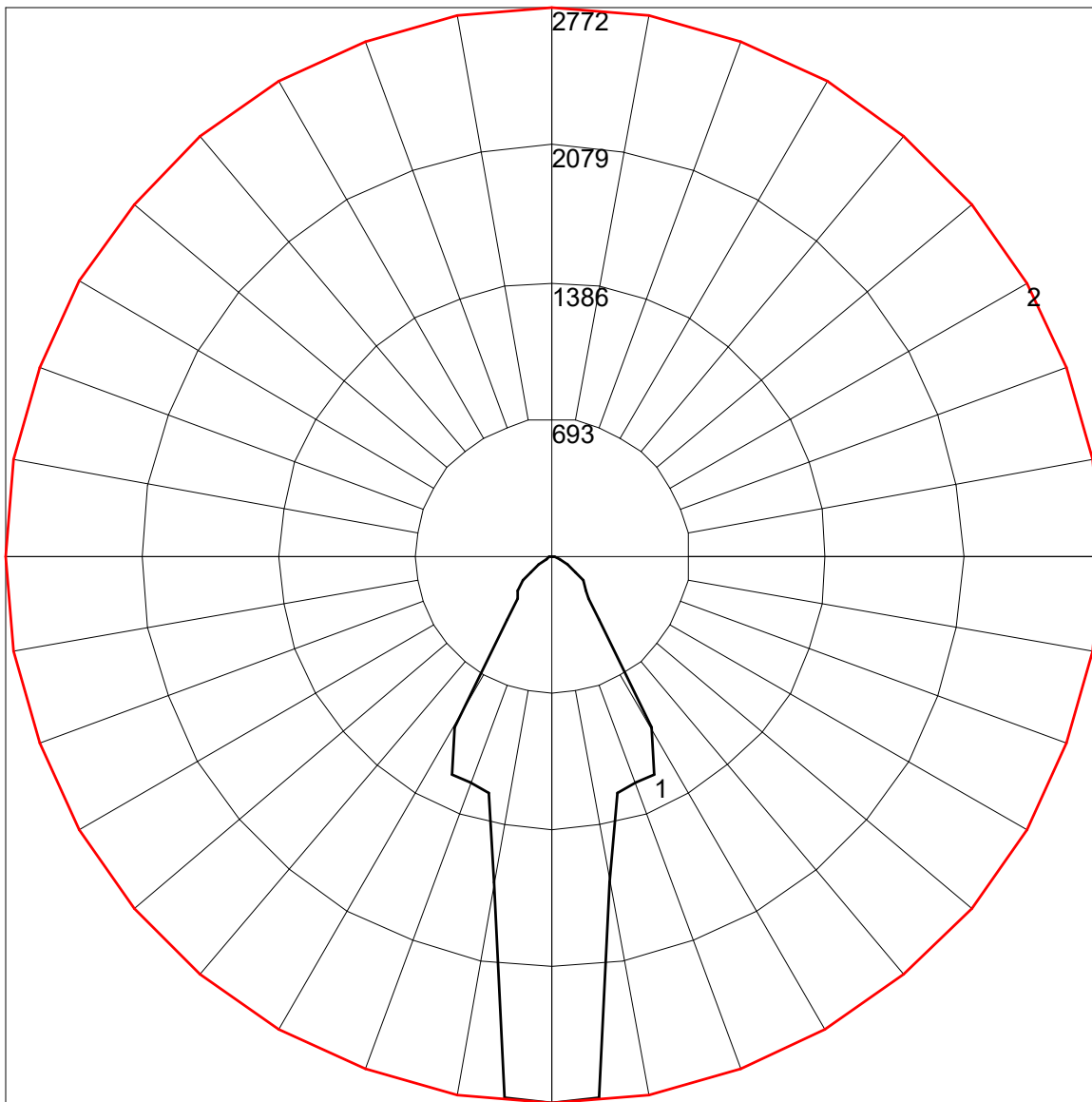
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	17.0	18.2	17.4	18.5	18.8	17.0	18.2	17.4	18.5	18.8
	3H	17.1	18.1	17.4	18.4	18.8	17.1	18.1	17.4	18.4	18.8
	4H	17.0	17.9	17.4	18.3	18.6	17.0	17.9	17.4	18.3	18.6
	6H	16.9	17.7	17.3	18.1	18.5	16.9	17.7	17.3	18.1	18.5
	8H	16.8	17.6	17.3	18.0	18.4	16.8	17.6	17.3	18.0	18.4
	12H	16.8	17.5	17.2	17.9	18.4	16.8	17.5	17.2	17.9	18.4
4H	2H	17.0	17.9	17.4	18.3	18.7	17.0	17.9	17.4	18.3	18.7
	3H	17.0	17.8	17.5	18.2	18.6	17.0	17.8	17.5	18.2	18.6
	4H	16.9	17.6	17.4	18.0	18.5	16.9	17.6	17.4	18.0	18.5
	6H	16.8	17.4	17.3	17.9	18.3	16.8	17.4	17.3	17.9	18.3
	8H	16.8	17.3	17.2	17.8	18.2	16.8	17.3	17.2	17.8	18.2
	12H	16.7	17.2	17.2	17.7	18.1	16.7	17.2	17.2	17.7	18.1
8H	4H	16.8	17.3	17.2	17.8	18.2	16.8	17.3	17.2	17.8	18.2
	6H	16.7	17.1	17.2	17.6	18.1	16.7	17.1	17.2	17.6	18.1
	8H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	12H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9
12H	4H	16.7	17.2	17.2	17.7	18.2	16.7	17.2	17.2	17.7	18.2
	6H	16.6	17.0	17.1	17.5	18.0	16.6	17.0	17.1	17.5	18.0
	8H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9

Maximum UGR = 18.8

POLAR GRAPH



Maximum Candela = 2771.652 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.)