



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-940-DIM-UNV-RW-OF-CS\_.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] 02-24-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 6"RND RECESSED CAST HOUSING DOWNLIGHT  
 [MORE] WHITE REFL w/MICRO-PRISM GLASS LENS & SEMI-SPEC CONE  
 [LUMCAT] 6DR-TL-L15-940-DIM1-UNV-RW-OF-CS  
 [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	897
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
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	10026	10026	10026
55	6874	6874	6874
65	2653	2653	2653
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	1370.703
5	1365.134
10	828.610
15	614.496
20	607.689
25	602.738
30	494.443
35	197.406
40	139.236
45	121.290
50	97.775
55	67.452
60	40.843
65	19.184
70	6.188
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	297.51	N.A.	33.20
0-30	563.31	N.A.	62.80
0-40	721.36	N.A.	80.40
0-60	874.82	N.A.	97.50
0-80	897.46	N.A.	100.00
0-90	897.46	N.A.	100.00
10-90	786.27	N.A.	87.60
20-40	423.85	N.A.	47.20
20-50	516.35	N.A.	57.50
40-70	174.48	N.A.	19.40
60-80	22.63	N.A.	2.50
70-80	1.62	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	897.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.18
10-20	186.33
20-30	265.80
30-40	158.05
40-50	92.50
50-60	60.96
60-70	21.02
70-80	1.62
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	97	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	64	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

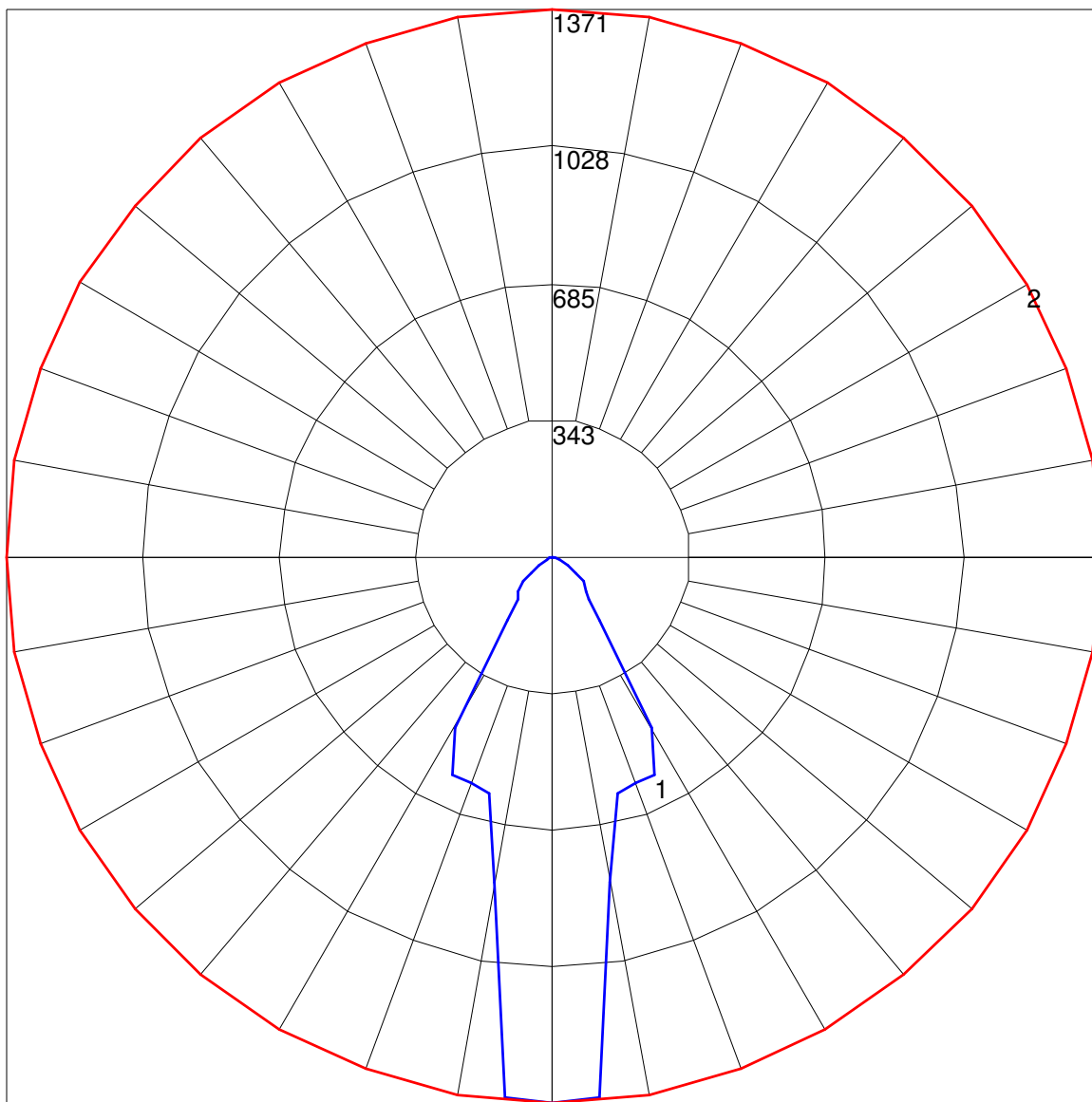
X=2H	Y=2H	14.5	15.7	14.9	16.0	16.3	14.5	15.7	14.9	16.0	16.3
	3H	14.6	15.6	14.9	15.9	16.3	14.6	15.6	14.9	15.9	16.3
	4H	14.5	15.4	14.9	15.8	16.2	14.5	15.4	14.9	15.8	16.2
	6H	14.4	15.2	14.8	15.6	16.0	14.4	15.2	14.8	15.6	16.0
	8H	14.3	15.1	14.8	15.5	15.9	14.3	15.1	14.8	15.5	15.9
	12H	14.3	15.0	14.7	15.4	15.9	14.3	15.0	14.7	15.4	15.9

### UGR Viewed Endwise

4H	2H	14.5	15.4	14.9	15.8	16.2	14.5	15.4	14.9	15.8	16.2
	3H	14.5	15.3	15.0	15.7	16.1	14.5	15.3	15.0	15.7	16.1
	4H	14.4	15.1	14.9	15.5	16.0	14.4	15.1	14.9	15.5	16.0
	6H	14.3	14.9	14.8	15.4	15.8	14.3	14.9	14.8	15.4	15.8
	8H	14.3	14.8	14.7	15.3	15.7	14.3	14.8	14.7	15.3	15.7
	12H	14.2	14.7	14.7	15.2	15.7	14.2	14.7	14.7	15.2	15.7
8H	4H	14.3	14.8	14.7	15.3	15.7	14.3	14.8	14.7	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
	12H	14.1	14.4	14.6	14.9	15.5	14.1	14.4	14.6	14.9	15.5
12H	4H	14.2	14.7	14.7	15.2	15.7	14.2	14.7	14.7	15.2	15.7
	6H	14.1	14.5	14.6	15.0	15.5	14.1	14.5	14.6	15.0	15.5
	8H	14.1	14.4	14.6	14.9	15.5	14.1	14.4	14.6	14.9	15.5

Maximum UGR = 16.3

POLAR GRAPH



Maximum Candela = 1370.703 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.)