



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L30-940-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-L30-940-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	1778
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
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	19866	19866	19866
55	13620	13620	13620
65	5257	5257	5257
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>
0	2716.049
5	2705.013
10	1641.891
15	1217.624
20	1204.135
25	1194.326
30	979.739
35	391.160
40	275.897
45	240.337
50	193.741
55	133.657
60	80.930
65	38.012
70	12.262
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	589.52	N.A.	33.20
0-30	1116.21	N.A.	62.80
0-40	1429.37	N.A.	80.40
0-60	1733.46	N.A.	97.50
0-80	1778.31	N.A.	100.00
0-90	1778.31	N.A.	100.00
10-90	1558.00	N.A.	87.60
20-40	839.85	N.A.	47.20
20-50	1023.15	N.A.	57.50
40-70	345.73	N.A.	19.40
60-80	44.85	N.A.	2.50
70-80	3.21	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	1778.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	220.31
10-20	369.21
20-30	526.68
30-40	313.17
40-50	183.30
50-60	120.79
60-70	41.64
70-80	3.21
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	84	98	92	87	83	89	85	81	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	77	72	68	76	71	68	74	70	67	65
6	85	75	68	64	83	74	68	63	73	67	63	71	66	63	70	65	62	61
7	80	70	64	59	79	69	63	59	68	63	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

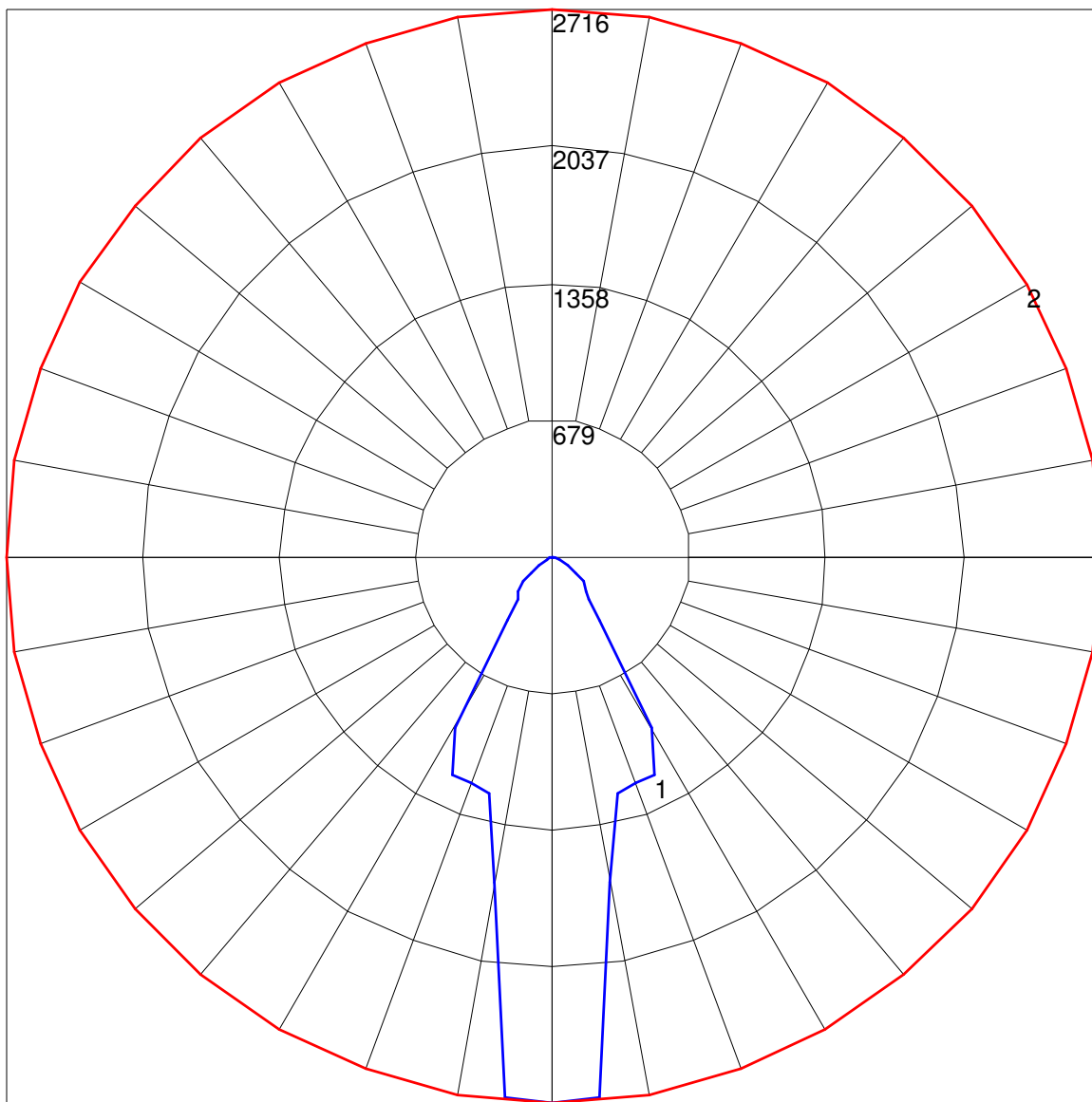
X=2H	Y=2H	16.9	18.1	17.3	18.4	18.7	16.9	18.1	17.3	18.4	18.7
	3H	17.0	18.0	17.3	18.3	18.7	17.0	18.0	17.3	18.3	18.7
	4H	16.9	17.8	17.3	18.2	18.5	16.9	17.8	17.3	18.2	18.5
	6H	16.8	17.6	17.2	18.0	18.4	16.8	17.6	17.2	18.0	18.4
	8H	16.7	17.5	17.2	17.9	18.3	16.7	17.5	17.2	17.9	18.3
	12H	16.7	17.4	17.1	17.8	18.3	16.7	17.4	17.1	17.8	18.3

UGR Viewed Endwise

4H	2H	16.9	17.8	17.3	18.2	18.6	16.9	17.8	17.3	18.2	18.6
	3H	16.9	17.7	17.4	18.1	18.5	16.9	17.7	17.4	18.1	18.5
	4H	16.8	17.5	17.3	17.9	18.4	16.8	17.5	17.3	17.9	18.4
	6H	16.7	17.3	17.2	17.8	18.2	16.7	17.3	17.2	17.8	18.2
	8H	16.7	17.2	17.1	17.7	18.1	16.7	17.2	17.1	17.7	18.1
	12H	16.6	17.1	17.1	17.6	18.0	16.6	17.1	17.1	17.6	18.0
8H	4H	16.7	17.2	17.1	17.7	18.1	16.7	17.2	17.1	17.7	18.1
	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
	12H	16.5	16.8	17.0	17.3	17.9	16.5	16.8	17.0	17.3	17.9
12H	4H	16.6	17.1	17.1	17.6	18.1	16.6	17.1	17.1	17.6	18.1
	6H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9
	8H	16.5	16.8	17.0	17.3	17.9	16.5	16.8	17.0	17.3	17.9

Maximum UGR = 18.7

POLAR GRAPH



Maximum Candela = 2716.049 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.)