



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-835-DIM-UNV-RW-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20354.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 12-30-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT  
 [MORE] WHITE MIXING CHAMBER & 6"CAST WHITE REGRESS TRIM w/SOLITE  
 [MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA  
 [LUMCAT] 6DS-L20-835-DIM-UNV-R-W-OF-WH  
 [LAMPCAT] BXRE-35E2000  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1992
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	22.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17398	20197	17337
55	13199	12599	12974
65	9059	8143	8855
75	3989	4321	3823
85	1481	1481	1481

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1416	1416	1416	1416	1416
<b>5</b>	1415	1414	1409	1409	1409
<b>10</b>	1403	1399	1398	1399	1394
<b>15</b>	1369	1372	1372	1371	1361
<b>20</b>	1305	1315	1333	1319	1299
<b>25</b>	1141	1188	1248	1201	1143
<b>30</b>	866	966	1079	957	834
<b>35</b>	496	611	856	619	511
<b>40</b>	360	399	549	397	363
<b>45</b>	286	304	332	298	285
<b>50</b>	223	235	234	233	228
<b>55</b>	176	169	168	176	173
<b>60</b>	131	128	124	129	127
<b>65</b>	89	84	80	86	87
<b>70</b>	48	48	48	47	46
<b>75</b>	24	25	26	22	23
<b>80</b>	12	12	12	13	11
<b>85</b>	3	3	3	4	3
<b>90</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	520.01	N.A.	26.10
0-30	1056.53	N.A.	53.00
0-40	1472.86	N.A.	73.90
0-60	1873.75	N.A.	94.10
0-80	1987.13	N.A.	99.70
0-90	1992.2	N.A.	100.00
10-90	1857.89	N.A.	93.30
20-40	952.86	N.A.	47.80
20-50	1196.76	N.A.	60.10
40-70	485.85	N.A.	24.40
60-80	113.38	N.A.	5.70
70-80	28.42	N.A.	1.40
80-90	5.07	N.A.	0.30
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	1992.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.31
10-20	385.70
20-30	536.53
30-40	416.33
40-50	243.90
50-60	156.99
60-70	84.96
70-80	28.42
80-90	5.07
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	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	46	41	51	45	41	50	45	41	40

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**UGR TABLE - CORRECTED**

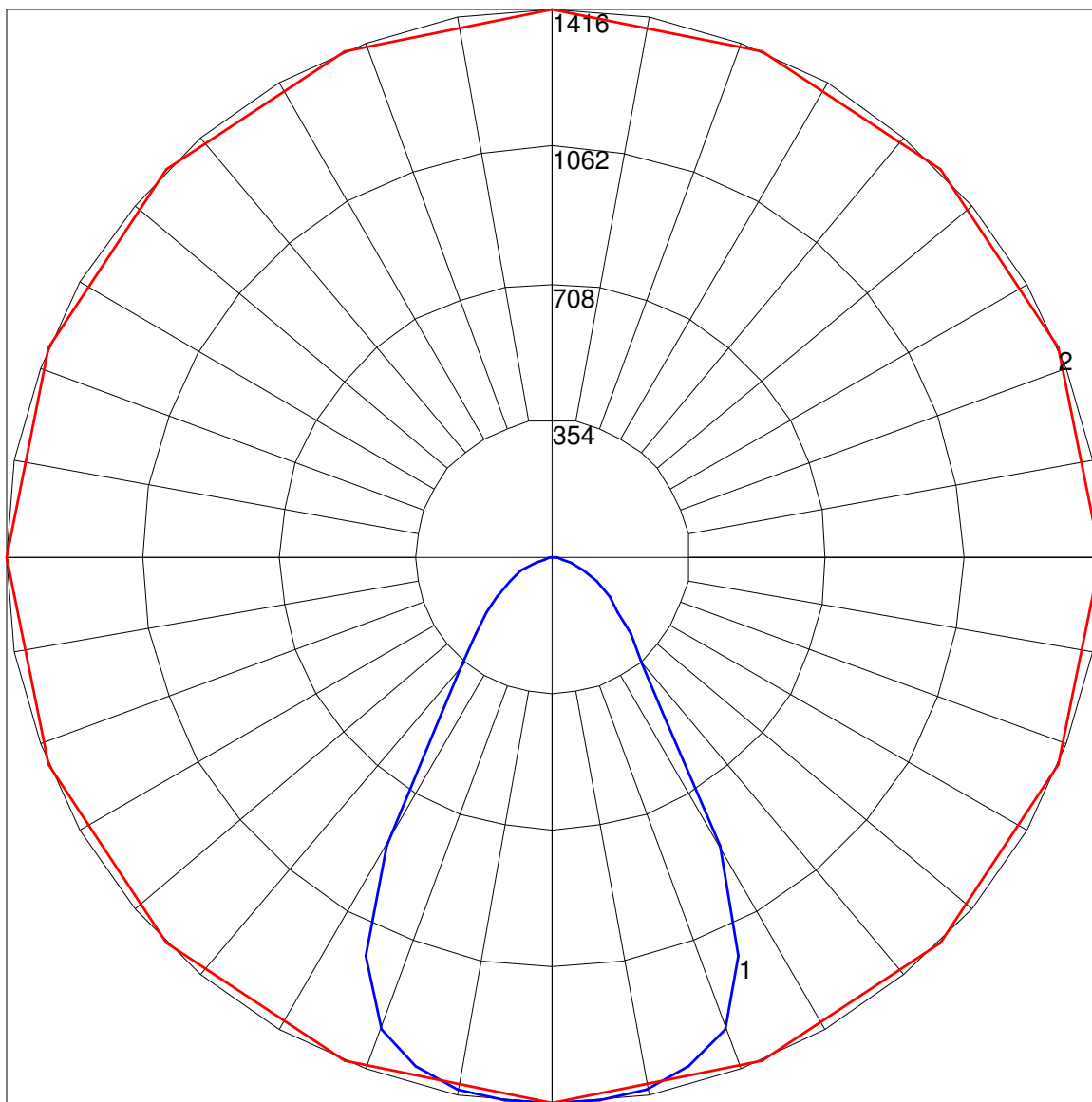
Reflectances

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	18.5	19.8	18.9	20.1	20.4	18.6	19.9	19.0	20.2	20.5
	3H	19.3	20.4	19.7	20.7	21.1	19.3	20.4	19.7	20.8	21.1
	4H	19.4	20.4	19.8	20.8	21.2	19.4	20.5	19.8	20.8	21.2
	6H	19.5	20.4	19.9	20.8	21.2	19.5	20.4	19.9	20.8	21.2
	8H	19.4	20.3	19.9	20.7	21.1	19.5	20.3	19.9	20.7	21.1
	12H	19.4	20.3	19.8	20.6	21.1	19.4	20.3	19.8	20.6	21.1
4H	2H	18.7	19.8	19.1	20.1	20.5	18.8	19.9	19.2	20.2	20.6
	3H	19.6	20.5	20.0	20.9	21.3	19.7	20.5	20.1	20.9	21.3
	4H	19.8	20.6	20.2	21.0	21.4	19.8	20.6	20.2	21.0	21.4
	6H	19.9	20.5	20.3	21.0	21.5	19.9	20.5	20.3	21.0	21.4
	8H	19.9	20.5	20.4	20.9	21.4	19.9	20.5	20.3	20.9	21.4
	12H	19.9	20.4	20.3	20.9	21.3	19.8	20.4	20.3	20.9	21.3
8H	4H	19.8	20.4	20.3	20.9	21.3	19.8	20.4	20.3	20.9	21.3
	6H	19.9	20.4	20.4	20.9	21.4	19.9	20.4	20.4	20.9	21.4
	8H	19.9	20.4	20.5	20.9	21.4	19.9	20.4	20.5	20.9	21.4
	12H	19.9	20.3	20.4	20.8	21.4	19.9	20.3	20.5	20.8	21.4
12H	4H	19.8	20.3	20.3	20.8	21.3	19.8	20.3	20.3	20.8	21.3
	6H	19.9	20.3	20.4	20.8	21.3	19.9	20.3	20.4	20.8	21.3
	8H	19.9	20.3	20.4	20.8	21.4	19.9	20.3	20.4	20.8	21.4

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1416 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.)