



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-840-DIM-UNV-OW-OF-CS\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]BALLABS TEST NO. 20343.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 08-17-2020  
 [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"ALUM SEMI-SPEC TRIM w/FROST FILM  
 [MORE] ADVANCE # XI025C070V054DSM1 @ 560mA  
 [LUMCAT] 6DS-L20-840-DIM-UNV-OW-OF-CS  
 [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	1955
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	22.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	9583	14866	9337
55	1363	2423	1363
65	0	0	0
75	0	0	0
85	0	0	0

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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>	2251.885	2251.885	2251.885	2251.885	2251.885
<b>5</b>	2235.728	2232.699	2221.591	2214.522	2212.503
<b>10</b>	2116.570	2124.649	2119.600	2104.452	2101.423
<b>15</b>	1919.656	1926.725	1923.696	1912.588	1905.519
<b>20</b>	1672.252	1670.232	1679.321	1668.213	1662.154
<b>25</b>	1340.023	1378.396	1390.514	1360.219	1319.827
<b>30</b>	928.019	967.402	1052.226	972.451	936.098
<b>35</b>	551.358	638.202	756.351	612.957	538.231
<b>40</b>	317.082	348.386	472.593	334.248	312.033
<b>45</b>	157.531	186.816	244.375	189.845	153.492
<b>50</b>	63.618	77.756	100.981	75.736	62.608
<b>55</b>	18.177	25.245	32.314	26.255	18.177
<b>60</b>	2.020	3.029	7.069	3.029	1.010
<b>65</b>	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	1.010	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	743.80	N.A.	38.00
0-30	1359.09	N.A.	69.50
0-40	1765.28	N.A.	90.30
0-60	1954.08	N.A.	99.90
0-80	1955.1	N.A.	100.00
0-90	1955.1	N.A.	100.00
10-90	1746.43	N.A.	89.30
20-40	1021.47	N.A.	52.20
20-50	1180.73	N.A.	60.40
40-70	189.75	N.A.	9.70
60-80	1.02	N.A.	0.10
70-80	0.07	N.A.	0.00
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	1955.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	208.67
10-20	535.13
20-30	615.28
30-40	406.19
40-50	159.25
50-60	29.55
60-70	0.95
70-80	0.07
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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	89	86	84	87	85	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	66	65
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61
8	79	69	63	59	78	69	63	59	68	62	59	67	62	59	66	61	58	57
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50

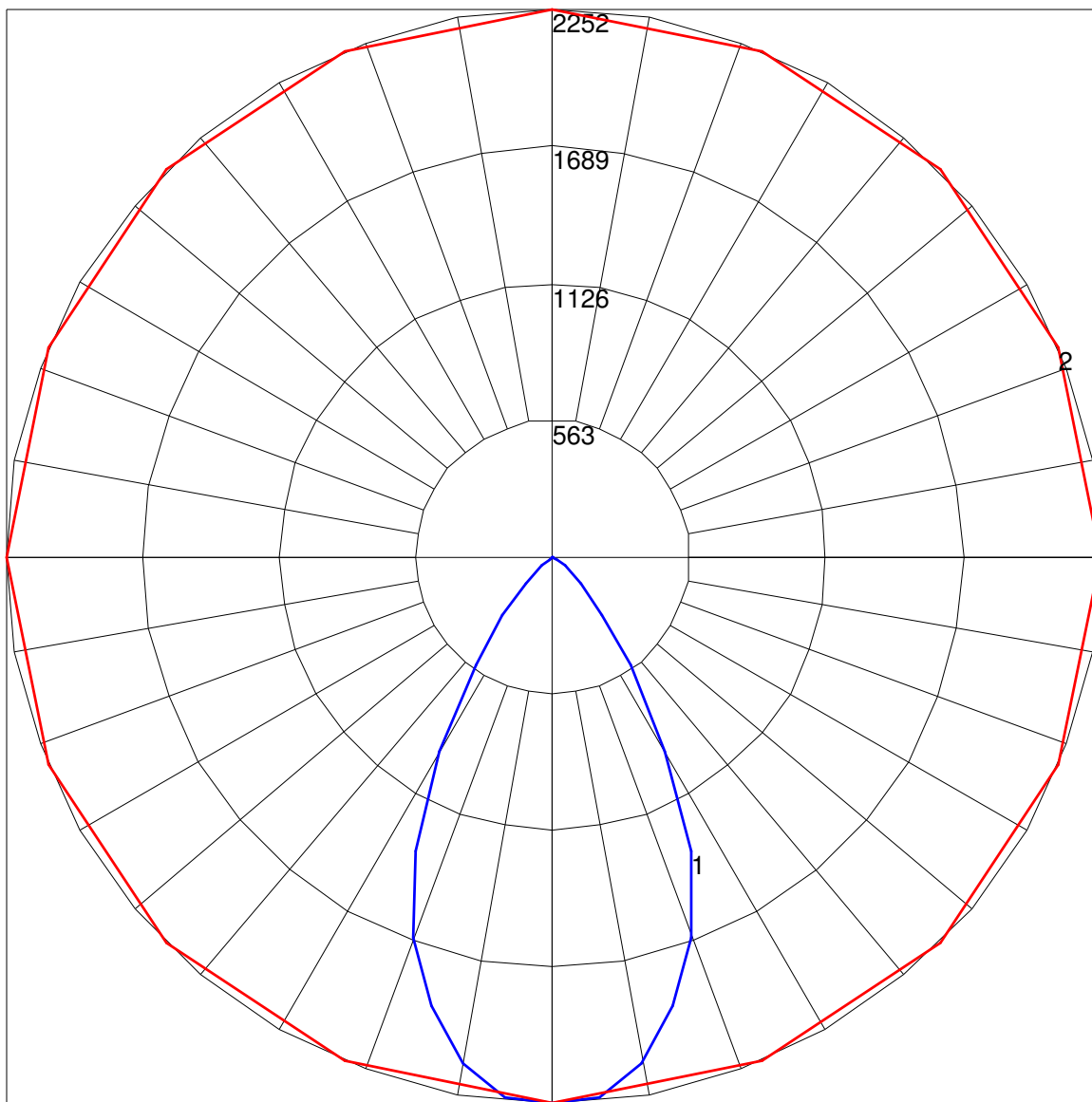
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**UGR TABLE - CORRECTED**

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	2.3	2.7	2.3	3.1	3.4	2.3	2.9	2.3	3.2	3.5
	3H	2.3	2.4	2.3	2.8	3.1	2.3	2.6	2.3	2.9	3.3
	4H	2.3	2.3	2.3	2.6	3.0	2.3	2.4	2.3	2.8	3.2
	6H	2.3	2.3	2.3	2.5	2.9	2.3	2.3	2.3	2.6	3.0
	8H	2.3	2.3	2.3	2.4	2.8	2.3	2.3	2.3	2.5	2.9
	12H	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.4	2.9
4H	2H	2.3	2.3	2.3	2.6	3.0	2.3	2.4	2.3	2.8	3.2
	3H	2.3	2.3	2.3	2.3	2.7	2.3	2.3	2.3	2.5	2.9
	4H	2.3	2.3	2.3	2.3	2.6	2.3	2.3	2.3	2.3	2.7
	6H	2.3	2.3	2.3	2.3	2.5	2.3	2.3	2.3	2.3	2.6
	8H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
	12H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
8H	4H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.5
	6H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	8H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	12H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
12H	4H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4
	6H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
	8H	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3

Maximum UGR = 3.5

POLAR GRAPH



Maximum Candela = 2251.885 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.)