



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-8TW-DIM-UNV-LW-OF-WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-APR-2018

[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 FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L20-8TW-DIM-UNV-LW-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	1990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.06
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	18532	21388	18124
55	14441	14800	14297
65	10043	10043	9751
75	6369	6210	6050
85	1418	946	1891

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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>	1344.074	1344.074	1344.074	1344.074	1344.074
<b>5</b>	1347.906	1341.200	1341.200	1340.242	1343.116
<b>10</b>	1335.452	1329.704	1328.746	1323.956	1331.620
<b>15</b>	1317.250	1307.670	1300.006	1296.174	1300.006
<b>20</b>	1252.106	1265.518	1272.224	1254.980	1238.694
<b>25</b>	1096.910	1127.566	1209.954	1139.062	1101.700
<b>30</b>	819.090	914.890	1032.724	921.596	820.048
<b>35</b>	501.992	604.498	809.510	570.968	503.908
<b>40</b>	379.368	416.730	554.682	400.444	374.578
<b>45</b>	304.644	322.846	351.586	314.224	297.938
<b>50</b>	244.290	254.828	262.492	249.080	244.290
<b>55</b>	192.558	192.558	197.348	193.516	190.642
<b>60</b>	139.868	140.826	138.910	138.910	141.784
<b>65</b>	98.674	98.674	98.674	97.716	95.800
<b>70</b>	65.144	64.186	60.354	63.228	64.186
<b>75</b>	38.320	37.362	37.362	36.404	36.404
<b>80</b>	21.076	19.160	18.202	18.202	18.202
<b>85</b>	2.874	3.832	1.916	2.874	3.832
<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	495.00	N.A.	24.90
0-30	1008.55	N.A.	50.70
0-40	1412.66	N.A.	71.00
0-60	1843.73	N.A.	92.60
0-80	1983.55	N.A.	99.70
0-90	1990.29	N.A.	100.00
10-90	1862.63	N.A.	93.60
20-40	917.67	N.A.	46.10
20-50	1174.55	N.A.	59.00
40-70	529.72	N.A.	26.60
60-80	139.82	N.A.	7.00
70-80	41.16	N.A.	2.10
80-90	6.74	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	1990.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.66
10-20	367.33
20-30	513.56
30-40	404.11
40-50	256.88
50-60	174.18
60-70	98.66
70-80	41.16
80-90	6.74
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

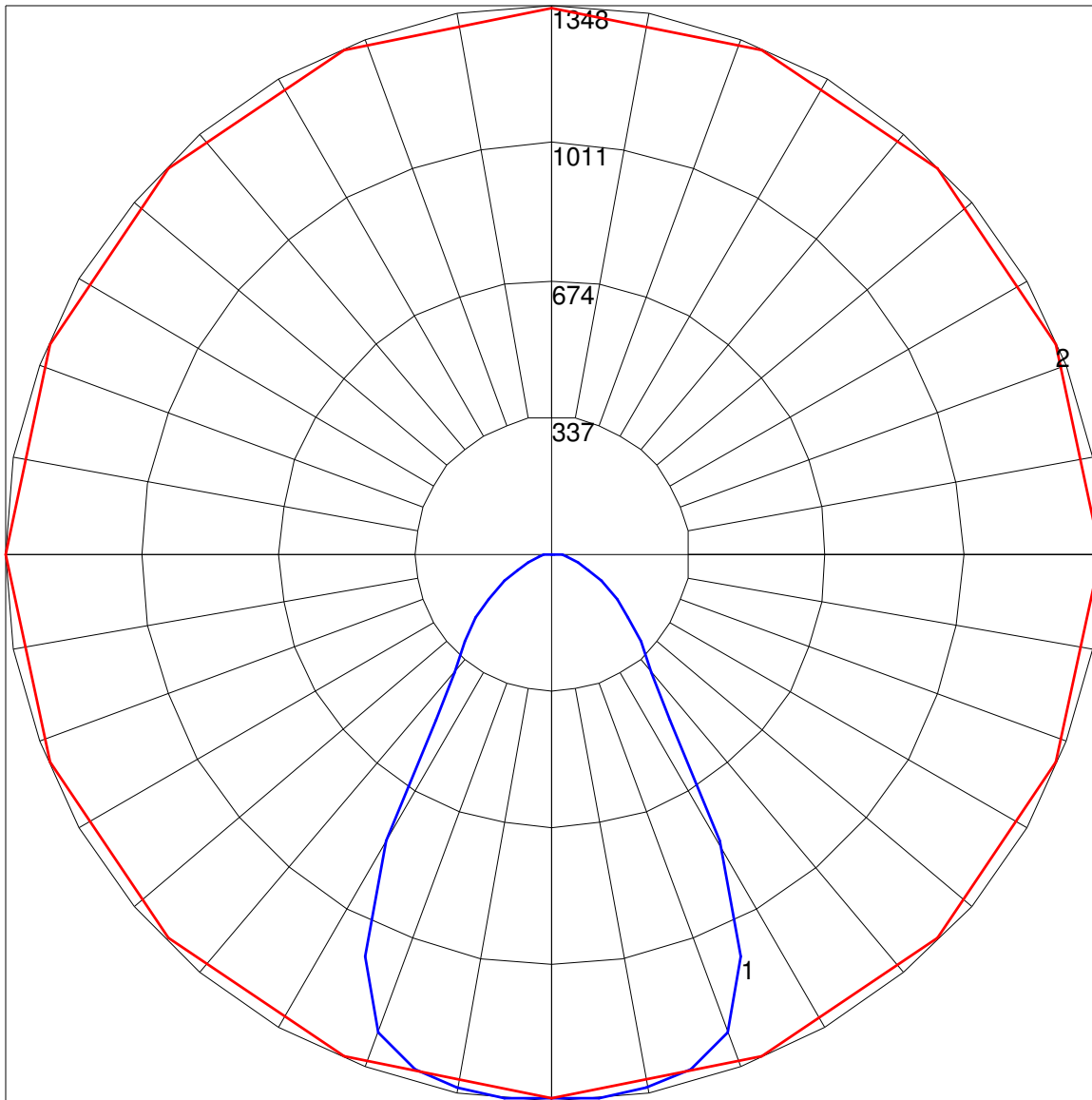
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	111	111	111	111	106	106	106	102	102	102	98	98	98	96
1	107	104	101	98	105	102	99	96	98	95	93	94	92	90	91	89	88	86
2	100	94	89	85	98	92	88	84	89	85	82	86	83	80	83	81	78	77
3	93	85	79	74	91	84	78	74	81	77	73	79	75	71	77	73	70	69
4	87	78	71	66	85	77	71	66	75	69	65	72	68	64	71	67	63	62
5	81	72	65	59	80	71	64	59	69	63	59	67	62	58	65	61	57	56
6	76	66	59	54	75	65	58	54	63	58	53	62	57	53	61	56	52	51
7	72	61	54	49	70	60	54	49	59	53	49	58	52	48	56	52	48	46
8	68	57	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
9	64	53	46	42	63	52	46	41	51	45	41	50	45	41	49	45	41	39
10	60	49	43	39	59	49	43	38	48	42	38	47	42	38	46	42	38	37

POLAR GRAPH



Maximum Candela = 1347.906 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)