



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L21-9DW-DIM-UNV-OM-OF-CS.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20345.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 26-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] ACRYLIC MED TIR OPTIC & 6"ALUM SEMI-SPEC TRIM w/FROST FILM

[MORE] ADVANCE #XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L21-9DW-DIM-UNV-OM-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	1668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.70
Spacing Criterion (Diagonal)	0.74
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	5910	13619	5910
55	475	1505	475
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>	2562.912	2562.912	2562.912	2562.912	2562.912
<b>5</b>	2448.864	2453.088	2446.752	2457.312	2457.312
<b>10</b>	2172.192	2171.136	2172.192	2171.136	2173.248
<b>15</b>	1799.424	1794.144	1786.752	1793.088	1802.592
<b>20</b>	1429.824	1422.432	1408.704	1415.040	1423.488
<b>25</b>	1069.728	1069.728	1053.888	1064.448	1064.448
<b>30</b>	728.640	731.808	753.984	732.864	734.976
<b>35</b>	461.472	467.808	542.784	485.760	451.968
<b>40</b>	240.768	289.344	376.992	296.736	236.544
<b>45</b>	97.152	134.112	223.872	147.840	97.152
<b>50</b>	27.456	42.240	91.872	47.520	27.456
<b>55</b>	6.336	9.504	20.064	9.504	6.336
<b>60</b>	2.112	3.168	3.168	3.168	2.112
<b>65</b>	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	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	725.33	N.A.	43.50
0-30	1213.61	N.A.	72.80
0-40	1525.72	N.A.	91.50
0-60	1667.41	N.A.	100.00
0-80	1668.12	N.A.	100.00
0-90	1668.12	N.A.	100.00
10-90	1442.73	N.A.	86.50
20-40	800.39	N.A.	48.00
20-50	924.95	N.A.	55.40
40-70	142.40	N.A.	8.50
60-80	0.71	N.A.	0.00
70-80	0.00	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	1668.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	225.39
10-20	499.94
20-30	488.28
30-40	312.11
40-50	124.56
50-60	17.13
60-70	0.71
70-80	0.00
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

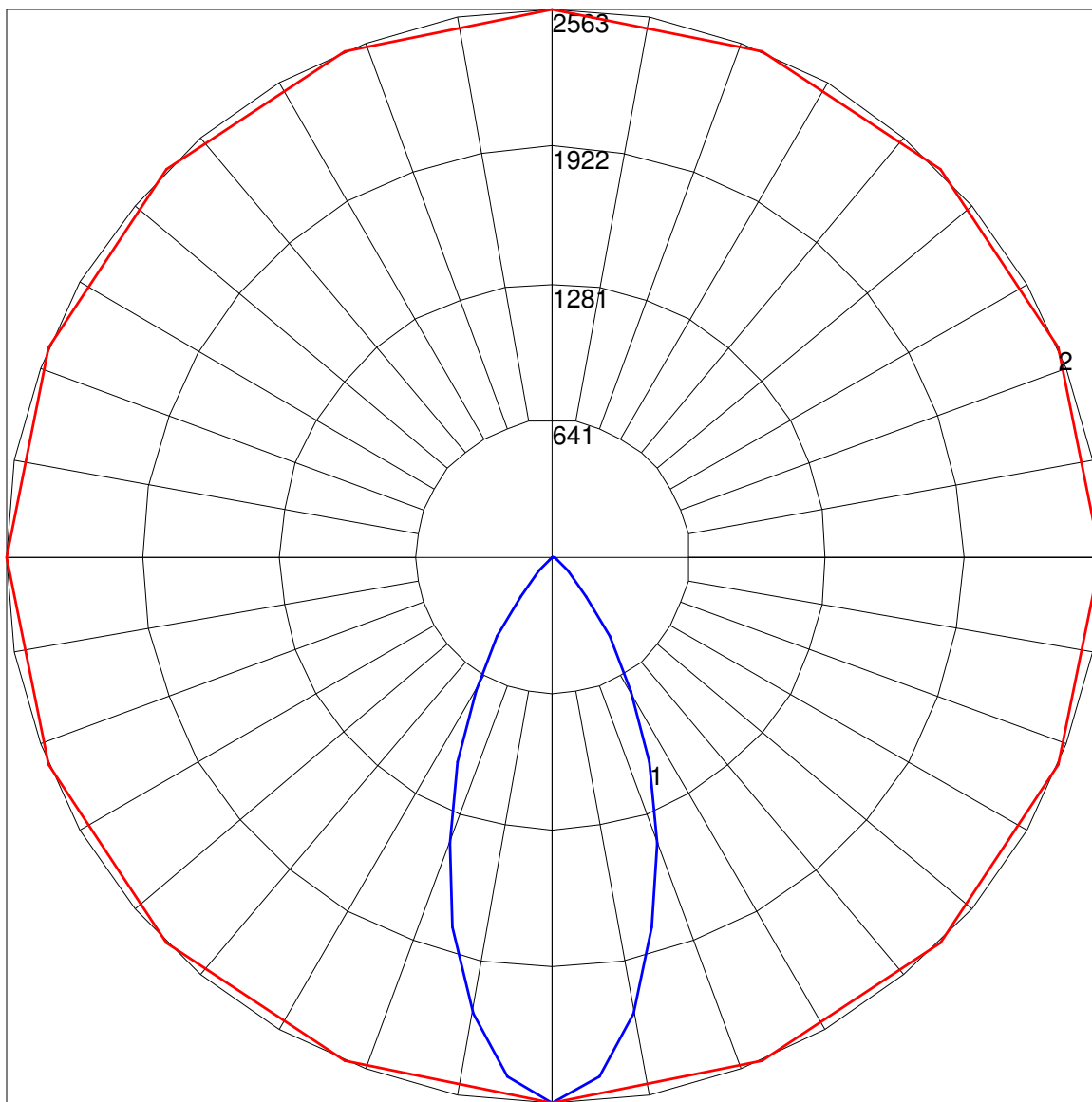
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	126	126	126	126	123	123	123	123	117	117	117	112	112	112	108	108	108	106
1	120	117	115	112	117	115	113	111	111	109	107	107	105	104	103	102	101	99
2	114	109	105	102	112	108	104	101	104	101	98	101	99	96	98	96	94	93
3	109	102	97	93	107	101	96	92	98	94	91	95	92	89	93	90	88	86
4	104	96	90	86	102	95	89	85	92	88	84	90	86	83	88	85	82	81
5	98	90	84	80	97	89	83	79	87	82	79	85	81	78	84	80	77	76
6	94	85	79	74	92	84	78	74	82	77	73	81	76	73	79	76	72	71
7	89	80	74	69	88	79	73	69	78	73	69	77	72	69	75	71	68	67
8	85	76	69	65	84	75	69	65	74	69	65	73	68	65	72	67	64	63
9	81	72	66	61	80	71	65	61	70	65	61	69	64	61	68	64	61	59
10	78	68	62	58	77	67	62	58	67	61	58	66	61	58	65	61	57	56

POLAR GRAPH



Maximum Candela = 2562.912 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.)