



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L21-9DW-DIM-UNV-LN-OF-WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20352.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIESW, INC

[ISSUEDATE] 27-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 NARROW TIR OPTIC & 6"CAST WHITE FLUSH TRIM w/SOLI

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L21-9DW-DIM-UNV-L-N-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	2181
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.46
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	3854	4433	3662
55	2693	2851	2613
65	2150	2150	1935
75	1229	1404	1229
85	521	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>	8634.912	8634.912	8634.912	8634.912	8634.912
<b>5</b>	7706.688	7737.312	7820.736	7737.312	7701.408
<b>10</b>	5662.272	5723.520	5635.872	5533.440	5475.360
<b>15</b>	3315.840	3248.256	3251.424	3003.264	3091.968
<b>20</b>	1694.880	1704.384	1573.440	1466.784	1409.760
<b>25</b>	730.752	729.696	737.088	651.552	616.704
<b>30</b>	315.744	328.416	333.696	293.568	269.280
<b>35</b>	173.184	164.736	176.352	151.008	135.168
<b>40</b>	93.984	95.040	108.768	91.872	86.592
<b>45</b>	63.360	66.528	72.864	63.360	60.192
<b>50</b>	44.352	47.520	51.744	46.464	43.296
<b>55</b>	35.904	36.960	38.016	34.848	34.848
<b>60</b>	26.400	26.400	26.400	26.400	26.400
<b>65</b>	21.120	20.064	21.120	20.064	19.008
<b>70</b>	13.728	12.672	12.672	12.672	11.616
<b>75</b>	7.392	8.448	8.448	8.448	7.392
<b>80</b>	4.224	4.224	4.224	3.168	4.224
<b>85</b>	1.056	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	1587.08	N.A.	72.80
0-30	1953.22	N.A.	89.50
0-40	2066.02	N.A.	94.70
0-60	2151.76	N.A.	98.60
0-80	2180.18	N.A.	99.90
0-90	2181.32	N.A.	100.00
10-90	1507.33	N.A.	69.10
20-40	478.94	N.A.	22.00
20-50	531.99	N.A.	24.40
40-70	105.45	N.A.	4.80
60-80	28.42	N.A.	1.30
70-80	8.70	N.A.	0.40
80-90	1.15	N.A.	0.10
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	2181.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	673.99
10-20	913.09
20-30	366.14
30-40	112.80
40-50	53.05
50-60	32.69
60-70	19.72
70-80	8.70
80-90	1.15
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

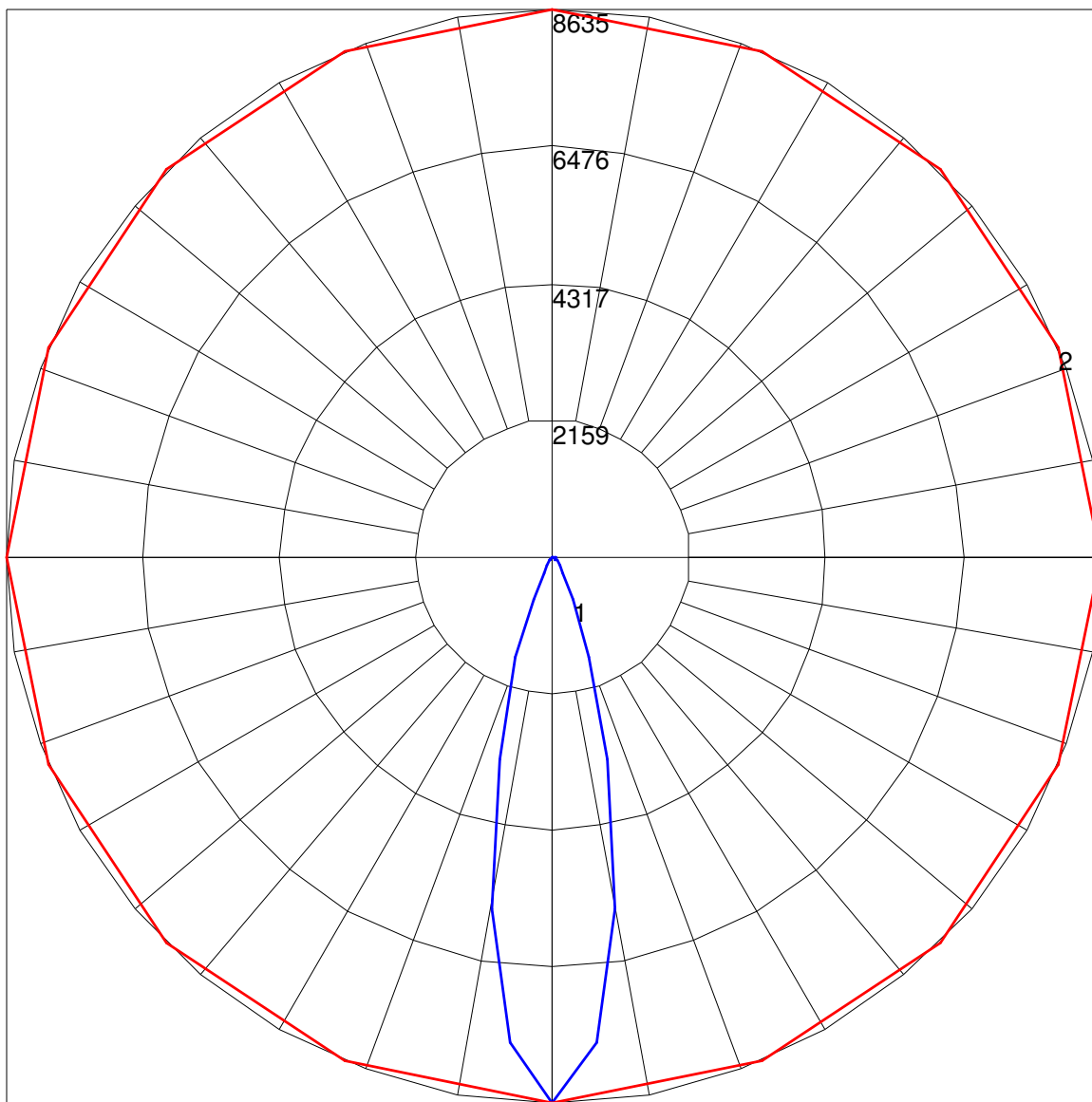
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	121	118	116	114	118	116	114	113	112	110	109	108	107	106	105	104	103	101
2	116	112	109	106	114	110	107	105	107	105	102	104	102	100	101	100	98	97
3	112	107	103	99	110	105	101	98	103	99	97	100	98	95	98	96	94	93
4	108	102	97	94	107	101	97	93	99	95	92	97	94	91	95	92	90	89
5	105	98	93	89	103	97	92	89	95	91	88	93	90	88	92	89	87	86
6	101	94	89	86	100	93	89	85	92	88	85	90	87	84	89	86	84	82
7	98	90	86	82	97	90	85	82	89	85	82	87	84	81	86	83	81	80
8	95	87	83	79	94	87	82	79	86	82	79	85	81	78	84	81	78	77
9	92	84	80	77	91	84	80	76	83	79	76	82	79	76	82	78	76	75
10	89	82	77	74	89	81	77	74	81	77	74	80	76	74	79	76	73	72

POLAR GRAPH



Maximum Candela = 8634.912 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.)