



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L15-835-DIM-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

[LUMCAT] 6DS-L15-835-DIM-UNV-LW-OF-WH

[\_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	1551
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	16
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	14439	16664	14121
55	11251	11531	11139
65	7825	7825	7597
75	4962	4838	4714
85	1105	737	1474

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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>	1047.186	1047.186	1047.186	1047.186	1047.186
<b>5</b>	1050.172	1044.947	1044.947	1044.201	1046.440
<b>10</b>	1040.469	1035.990	1035.244	1031.512	1037.483
<b>15</b>	1026.287	1018.823	1012.852	1009.867	1012.852
<b>20</b>	975.533	985.982	991.207	977.772	965.083
<b>25</b>	854.617	878.502	942.691	887.459	858.349
<b>30</b>	638.164	712.803	804.609	718.028	638.910
<b>35</b>	391.109	470.973	630.700	444.849	392.602
<b>40</b>	295.571	324.680	432.160	311.991	291.839
<b>45</b>	237.352	251.534	273.925	244.816	232.128
<b>50</b>	190.330	198.540	204.511	194.062	190.330
<b>55</b>	150.025	150.025	153.756	150.771	148.532
<b>60</b>	108.973	109.719	108.227	108.227	110.466
<b>65</b>	76.878	76.878	76.878	76.132	74.639
<b>70</b>	50.755	50.008	47.023	49.262	50.008
<b>75</b>	29.856	29.109	29.109	28.363	28.363
<b>80</b>	16.421	14.928	14.181	14.181	14.181
<b>85</b>	2.239	2.986	1.493	2.239	2.986
<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	385.66	N.A.	24.90
0-30	785.78	N.A.	50.70
0-40	1100.62	N.A.	71.00
0-60	1436.47	N.A.	92.60
0-80	1545.41	N.A.	99.70
0-90	1550.66	N.A.	100.00
10-90	1451.2	N.A.	93.60
20-40	714.97	N.A.	46.10
20-50	915.11	N.A.	59.00
40-70	412.72	N.A.	26.60
60-80	108.94	N.A.	7.00
70-80	32.07	N.A.	2.10
80-90	5.25	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	1550.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	99.46
10-20	286.19
20-30	400.12
30-40	314.85
40-50	200.14
50-60	135.71
60-70	76.87
70-80	32.07
80-90	5.25
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

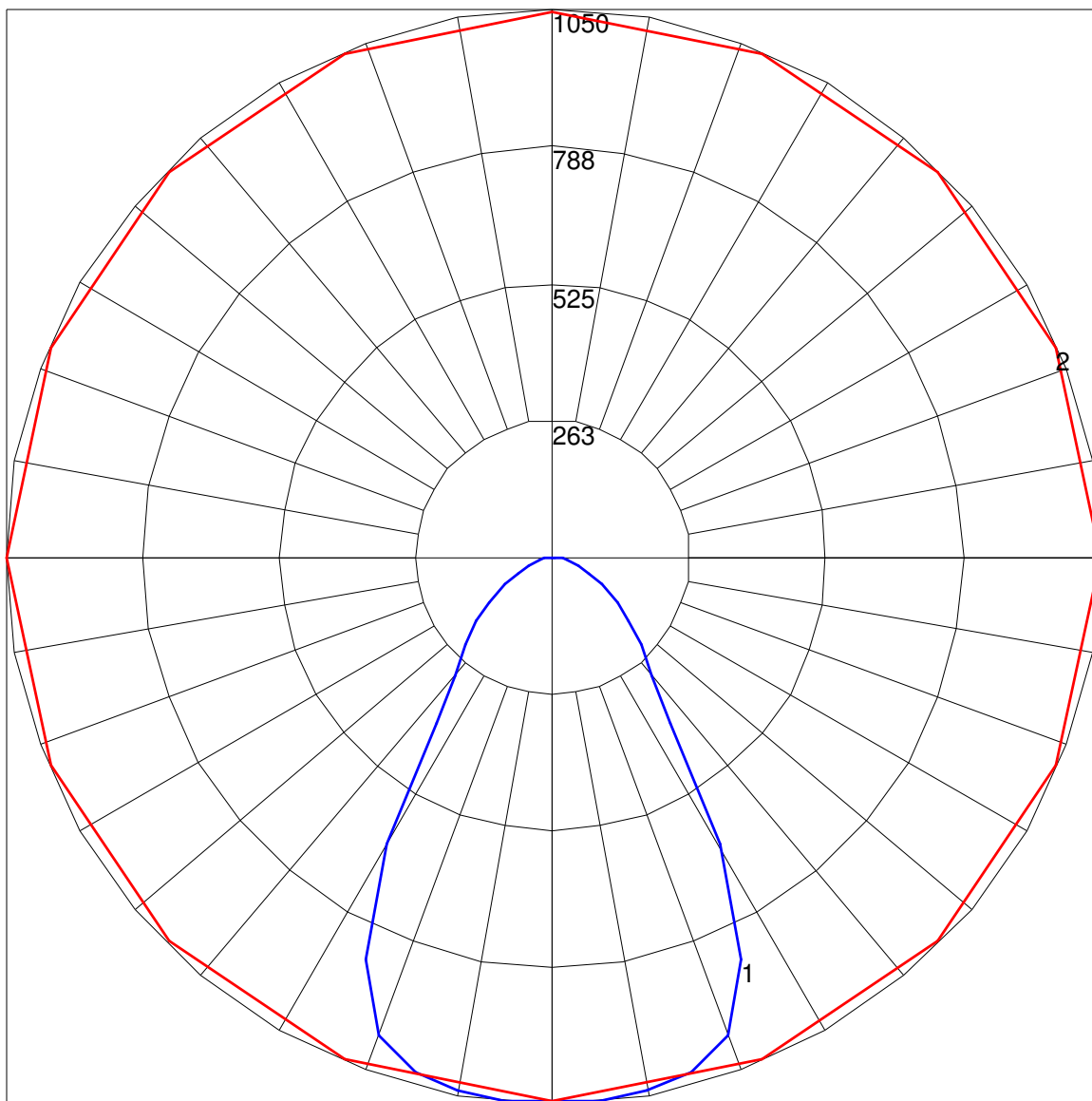
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	75
1	83	81	78	76	81	79	77	75	76	74	73	73	72	70	71	69	68	67
2	78	73	69	66	76	72	68	65	69	66	64	67	65	62	65	63	61	60
3	73	66	62	58	71	65	61	58	63	60	57	61	58	56	60	57	55	53
4	68	61	56	52	66	60	55	51	58	54	51	56	53	50	55	52	49	48
5	63	56	50	46	62	55	50	46	53	49	46	52	48	45	51	47	45	43
6	59	51	46	42	58	51	46	42	49	45	41	48	44	41	47	44	41	40
7	56	48	42	38	55	47	42	38	46	41	38	45	41	38	44	40	37	36
8	53	44	39	35	52	44	39	35	43	38	35	42	38	35	41	37	34	33
9	50	41	36	32	49	41	36	32	40	35	32	39	35	32	39	35	32	31
10	47	38	33	30	46	38	33	30	37	33	30	37	33	30	36	32	30	29

POLAR GRAPH



Maximum Candela = 1050.172 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.)