



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20351.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, 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 MED TIR OPTIC & 6"CAST WHITE FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L21-9DW-DIM-UNV-LM-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	2234
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.54
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	3469	4946	3919
55	2772	2772	2613
65	2257	2042	2150
75	1580	1229	1404
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>
0	6113.184	6113.184	6113.184	6113.184	6113.184
5	5819.616	5833.344	5831.232	5834.400	5869.248
10	5002.272	4908.288	4933.632	4933.632	5005.440
15	3503.808	3492.192	3465.792	3396.096	3444.672
20	1992.672	2053.920	1978.944	1876.512	1713.888
25	985.248	1005.312	974.688	906.048	842.688
30	459.360	474.144	477.312	417.120	378.048
35	222.816	230.208	252.384	214.368	179.520
40	108.768	123.552	135.168	109.824	95.040
45	57.024	74.976	81.312	70.752	64.416
50	52.800	53.856	54.912	51.744	48.576
55	36.960	36.960	36.960	35.904	34.848
60	28.512	27.456	28.512	28.512	27.456
65	22.176	22.176	20.064	22.176	21.120
70	14.784	14.784	14.784	14.784	14.784
75	9.504	8.448	7.392	8.448	8.448
80	4.224	4.224	3.168	4.224	4.224
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1471.75	N.A.	65.90
0-30	1951.7	N.A.	87.40
0-40	2107.65	N.A.	94.30
0-60	2202.27	N.A.	98.60
0-80	2232.85	N.A.	100.00
0-90	2233.93	N.A.	100.00
10-90	1705.42	N.A.	76.30
20-40	635.89	N.A.	28.50
20-50	696.20	N.A.	31.20
40-70	115.88	N.A.	5.20
60-80	30.58	N.A.	1.40
70-80	9.32	N.A.	0.40
80-90	1.08	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	2233.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	528.51
10-20	943.25
20-30	479.95
30-40	155.95
40-50	60.30
50-60	34.32
60-70	21.26
70-80	9.32
80-90	1.08
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

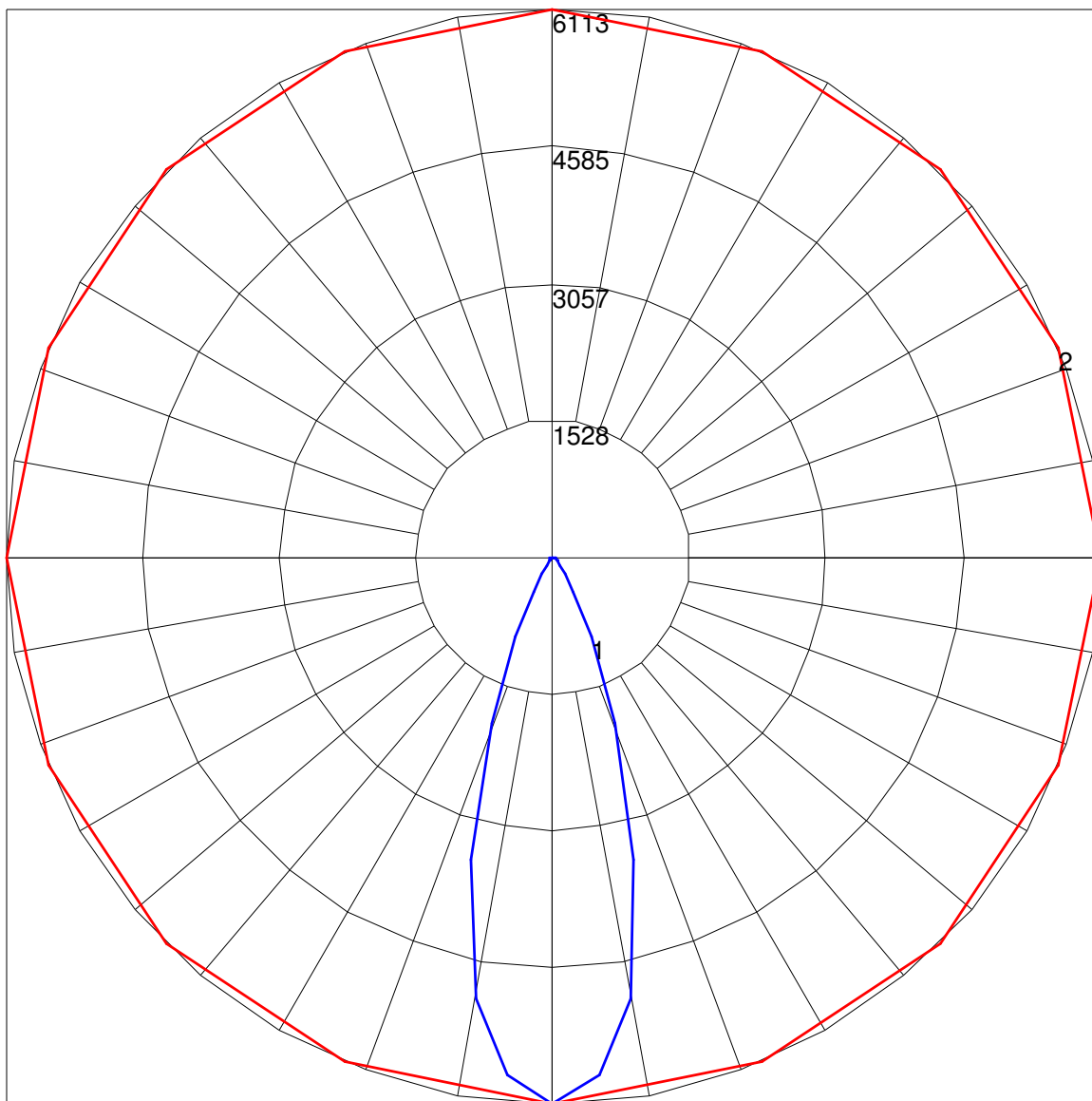
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	112	110	109	108	106	105	104	103	102	100
2	116	111	108	105	114	110	106	103	106	104	101	103	101	99	100	99	97	95
3	111	105	101	97	109	104	100	97	101	98	95	99	96	94	97	94	92	91
4	107	100	95	92	105	99	95	91	97	93	90	95	92	89	93	90	88	87
5	103	96	90	87	101	95	90	86	93	89	86	91	88	85	90	87	84	83
6	99	91	86	82	98	91	86	82	89	85	82	88	84	81	86	83	81	79
7	96	88	82	79	94	87	82	78	86	81	78	84	81	78	83	80	77	76
8	92	84	79	75	91	84	79	75	82	78	75	81	78	75	81	77	74	73
9	89	81	76	72	88	80	76	72	80	75	72	79	75	72	78	74	72	70
10	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	72	69	68

POLAR GRAPH



Maximum Candela = 6113.184 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.)