



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20347.0

[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"ALUM SEMI-SPEC WALL WASH TRIM

[MORE] w/FROST FILM ADVANCE # XI025C070V054DSM1 @ 560mA

[LUMCAT] 6DS-L21-9DW-DIM-UNV-OWW-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	1967
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.90
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	30514	17794	9250
55	25738	6019	1426
65	28160	1505	0
75	18077	176	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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	2057.088	2057.088	2057.088	2057.088	2057.088	2057.088	2057.088	2057.088	2057.088
5	2082.432	2066.592	2060.256	2040.192	2020.128	2011.680	2014.848	2031.744	2034.912
10	1978.944	1968.384	1962.048	1944.096	1916.640	1914.528	1941.984	1953.600	1966.272
15	1799.424	1781.472	1784.640	1771.968	1751.904	1769.856	1788.864	1774.080	1795.200
20	1581.888	1541.760	1569.216	1550.208	1518.528	1550.208	1577.664	1531.200	1506.912
25	1269.312	1326.336	1286.208	1232.352	1200.672	1267.200	1281.984	1192.224	1138.368
30	972.576	1004.256	1003.200	845.856	814.176	894.432	951.456	820.512	748.704
35	724.416	704.352	695.904	534.336	467.808	558.624	626.208	513.216	473.088
40	589.248	538.560	423.456	311.520	260.832	315.744	379.104	329.472	312.576
45	501.600	460.416	292.512	159.456	152.064	154.176	202.752	198.528	192.192
50	401.280	365.376	166.848	81.312	63.360	68.640	91.872	95.040	100.320
55	343.200	279.840	80.256	33.792	19.008	24.288	30.624	32.736	33.792
60	312.576	231.264	30.624	1.056	0.000	0.000	6.336	4.224	10.560
65	276.672	187.968	14.784	2.112	0.000	0.000	0.000	2.112	2.112
70	194.304	120.384	8.448	0.000	0.000	0.000	0.000	0.000	0.000
75	108.768	57.024	1.056	0.000	0.000	0.000	0.000	0.000	0.000
80	14.784	11.616	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	686.48	N.A.	34.90
0-30	1251.66	N.A.	63.60
0-40	1631.36	N.A.	82.90
0-60	1909.47	N.A.	97.10
0-80	1966.79	N.A.	100.00
0-90	1967.43	N.A.	100.00
10-90	1775.93	N.A.	90.30
20-40	944.88	N.A.	48.00
20-50	1139.62	N.A.	57.90
40-70	319.97	N.A.	16.30
60-80	57.32	N.A.	2.90
70-80	15.46	N.A.	0.80
80-90	0.65	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	1967.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	191.50
10-20	494.98
20-30	565.18
30-40	379.70
40-50	194.74
50-60	83.37
60-70	41.86
70-80	15.46
80-90	0.65
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

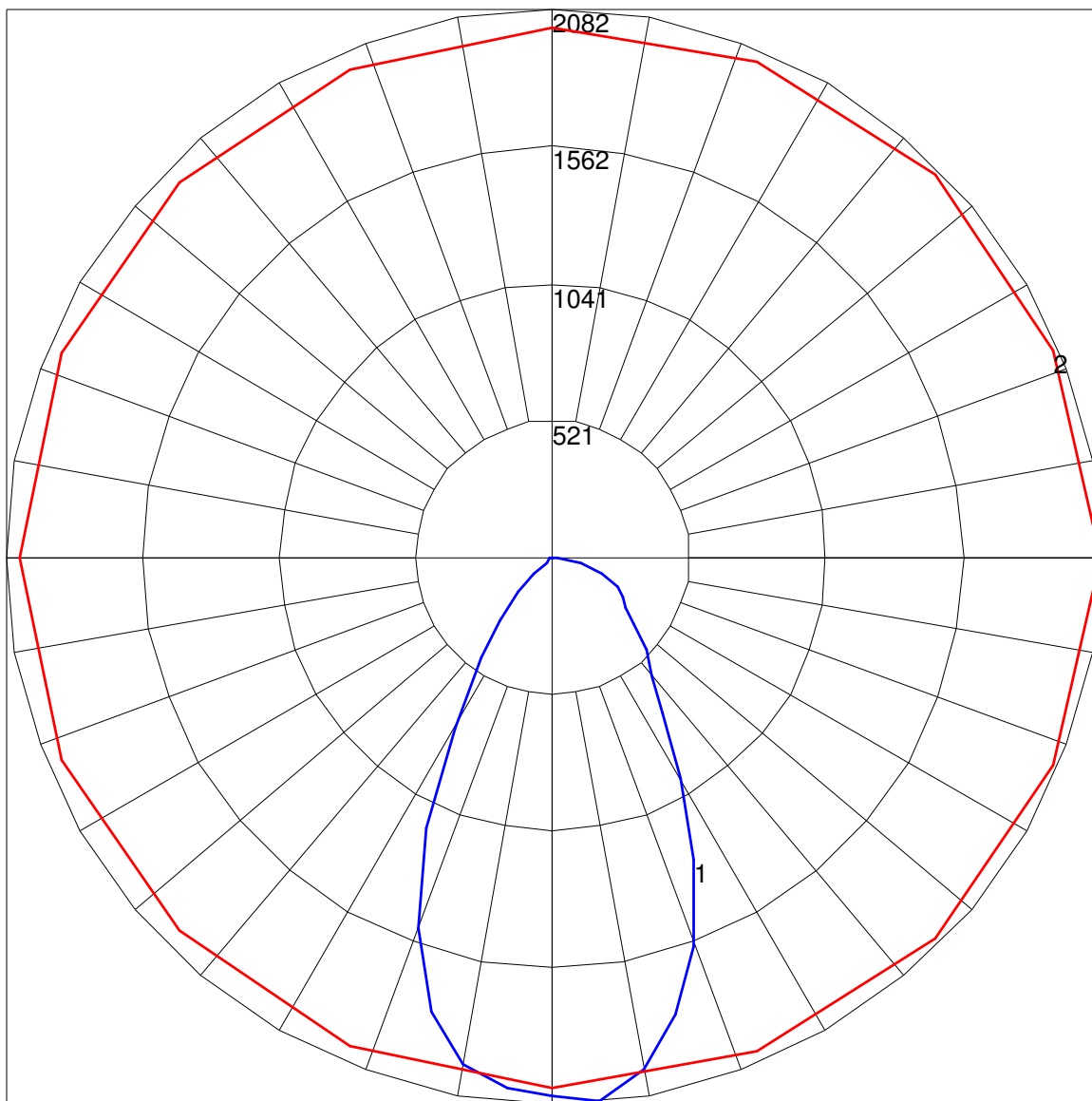
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	116	113	111	117	114	111	109	109	107	105	105	104	102	102	101	99	97
2	113	107	102	98	110	105	101	97	102	98	95	98	96	93	95	93	91	89
3	106	99	93	88	104	97	92	88	94	90	86	92	88	85	89	86	84	82
4	100	92	85	80	98	90	84	80	88	83	79	86	81	78	84	80	77	75
5	95	85	79	74	93	84	78	73	82	77	73	80	76	72	79	75	71	70
6	90	79	73	68	88	79	72	68	77	71	67	75	70	67	74	70	66	64
7	85	74	68	63	83	74	67	63	72	66	62	71	66	62	70	65	62	60
8	81	70	63	58	79	69	63	58	68	62	58	67	62	58	66	61	57	56
9	76	66	59	55	75	65	59	54	64	58	54	63	58	54	62	57	54	52
10	73	62	55	51	72	61	55	51	61	55	51	60	54	51	59	54	51	49

POLAR GRAPH



Maximum Candela = 2082.432 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.)