



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-8TW-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

[ISSUE DATE] 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-L20-8TW-DIM-UNV-LN-OF-WH

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCE TYPE] 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	1929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	24
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	3409	3920	3239
55	2382	2522	2311
65	1901	1901	1711
75	1087	1242	1087
85	461	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	7637.318	7637.318	7637.318	7637.318	7637.318
5	6816.332	6843.418	6917.204	6843.418	6811.662
10	5008.108	5062.280	4984.758	4894.160	4842.790
15	2932.760	2872.984	2875.786	2656.296	2734.752
20	1499.070	1507.476	1391.660	1297.326	1246.890
25	646.328	645.394	651.932	576.278	545.456
30	279.266	290.474	295.144	259.652	238.170
35	153.176	145.704	155.978	133.562	119.552
40	83.126	84.060	96.202	81.258	76.588
45	56.040	58.842	64.446	56.040	53.238
50	39.228	42.030	45.766	41.096	38.294
55	31.756	32.690	33.624	30.822	30.822
60	23.350	23.350	23.350	23.350	23.350
65	18.680	17.746	18.680	17.746	16.812
70	12.142	11.208	11.208	11.208	10.274
75	6.538	7.472	7.472	7.472	6.538
80	3.736	3.736	3.736	2.802	3.736
85	0.934	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	1403.72	N.A.	72.80
0-30	1727.56	N.A.	89.50
0-40	1827.33	N.A.	94.70
0-60	1903.17	N.A.	98.60
0-80	1928.3	N.A.	99.90
0-90	1929.31	N.A.	100.00
10-90	1333.19	N.A.	69.10
20-40	423.61	N.A.	22.00
20-50	470.53	N.A.	24.40
40-70	93.27	N.A.	4.80
60-80	25.13	N.A.	1.30
70-80	7.70	N.A.	0.40
80-90	1.02	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	1929.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	596.13
10-20	807.60
20-30	323.84
30-40	99.77
40-50	46.92
50-60	28.91
60-70	17.44
70-80	7.70
80-90	1.02
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

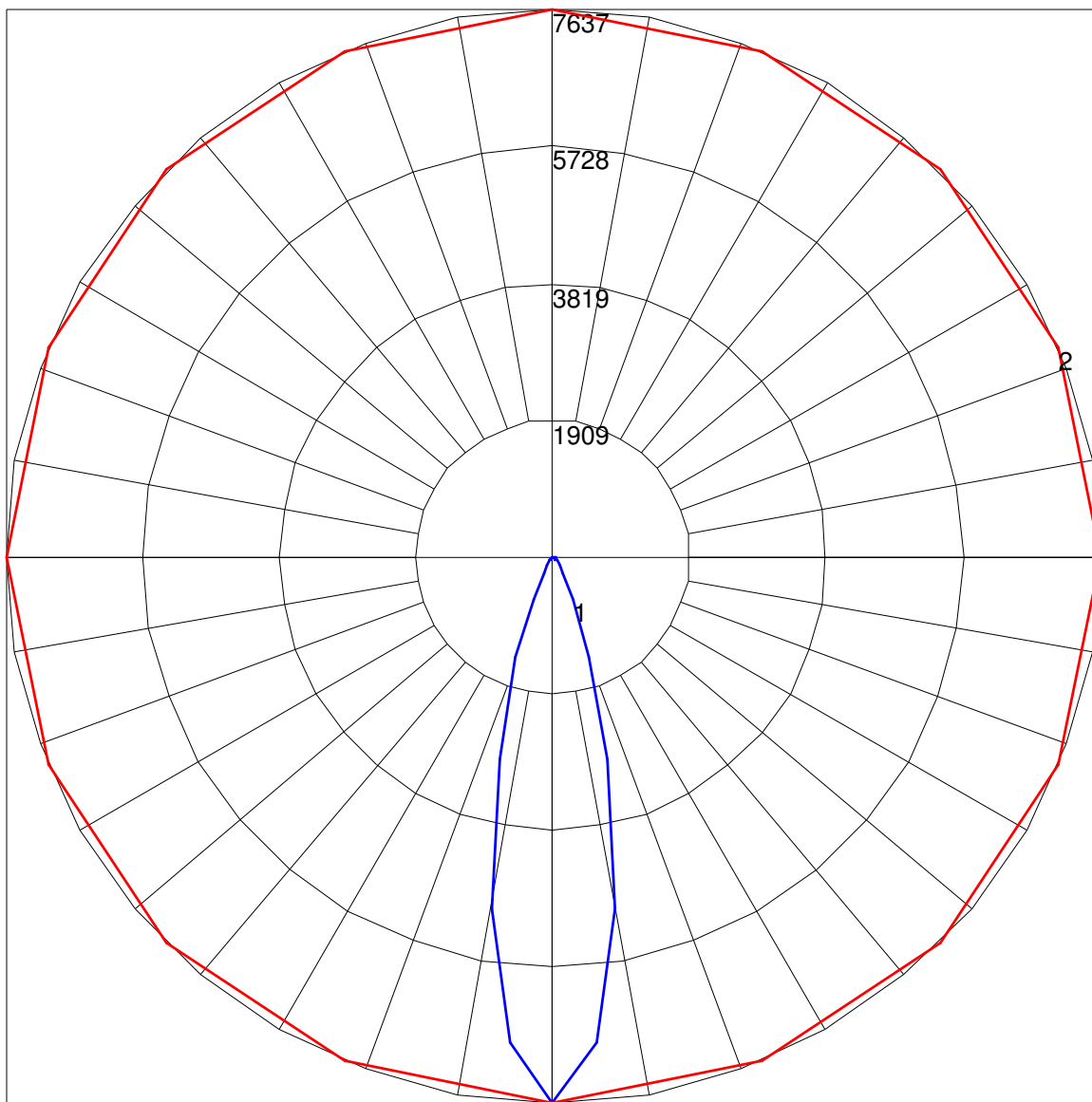
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	109	109	109	109	104	104	104	99	99	99	95	95	95	93
1	107	105	103	101	105	103	101	100	99	98	96	96	95	94	92	92	91	89
2	103	99	96	94	101	98	95	93	95	92	91	92	90	89	90	88	87	85
3	99	94	91	88	97	93	90	87	91	88	86	89	86	84	87	85	83	82
4	96	90	86	83	94	89	85	83	87	84	82	86	83	81	84	82	80	79
5	92	86	82	79	91	86	82	79	84	81	78	83	80	77	81	79	77	76
6	89	83	79	76	88	82	78	75	81	78	75	80	77	74	79	76	74	73
7	87	80	76	73	86	79	75	73	78	75	72	77	74	72	76	74	71	70
8	84	77	73	70	83	77	73	70	76	72	70	75	72	69	74	71	69	68
9	81	75	71	68	81	74	70	68	74	70	67	73	70	67	72	69	67	66
10	79	72	68	66	78	72	68	65	71	68	65	71	67	65	70	67	65	64

POLAR GRAPH



Maximum Candela = 7637.318 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.)