



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L20-8TW-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-L20-8TW-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	1785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	24
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	27682	16143	8392
55	23350	5460	1293
65	25547	1365	0
75	16399	159	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	1866.184	1866.184	1866.184	1866.184	1866.184	1866.184	1866.184	1866.184	1866.184
5	1889.176	1874.806	1869.058	1850.856	1832.654	1824.990	1827.864	1843.192	1846.066
10	1795.292	1785.712	1779.964	1763.678	1738.770	1736.854	1761.762	1772.300	1783.796
15	1632.432	1616.146	1619.020	1607.524	1589.322	1605.608	1622.852	1609.440	1628.600
20	1435.084	1398.680	1423.588	1406.344	1377.604	1406.344	1431.252	1389.100	1367.066
25	1151.516	1203.248	1166.844	1117.986	1089.246	1149.600	1163.012	1081.582	1032.724
30	882.318	911.058	910.100	767.358	738.618	811.426	863.158	744.366	679.222
35	657.188	638.986	631.322	484.748	424.394	506.782	568.094	465.588	429.184
40	534.564	488.580	384.158	282.610	236.626	286.442	343.922	298.896	283.568
45	455.050	417.688	265.366	144.658	137.952	139.868	183.936	180.104	174.356
50	364.040	331.468	151.364	73.766	57.480	62.270	83.346	86.220	91.010
55	311.350	253.870	72.808	30.656	17.244	22.034	27.782	29.698	30.656
60	283.568	209.802	27.782	0.958	0.000	0.000	5.748	3.832	9.580
65	250.996	170.524	13.412	1.916	0.000	0.000	0.000	1.916	1.916
70	176.272	109.212	7.664	0.000	0.000	0.000	0.000	0.000	0.000
75	98.674	51.732	0.958	0.000	0.000	0.000	0.000	0.000	0.000
80	13.412	10.538	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	622.78	N.A.	34.90
0-30	1135.5	N.A.	63.60
0-40	1479.97	N.A.	82.90
0-60	1732.27	N.A.	97.10
0-80	1784.26	N.A.	100.00
0-90	1784.85	N.A.	100.00
10-90	1611.12	N.A.	90.30
20-40	857.19	N.A.	48.00
20-50	1033.86	N.A.	57.90
40-70	290.28	N.A.	16.30
60-80	52.00	N.A.	2.90
70-80	14.02	N.A.	0.80
80-90	0.59	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	1784.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.73
10-20	449.04
20-30	512.73
30-40	344.46
40-50	176.67
50-60	75.63
60-70	37.98
70-80	14.02
80-90	0.59
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

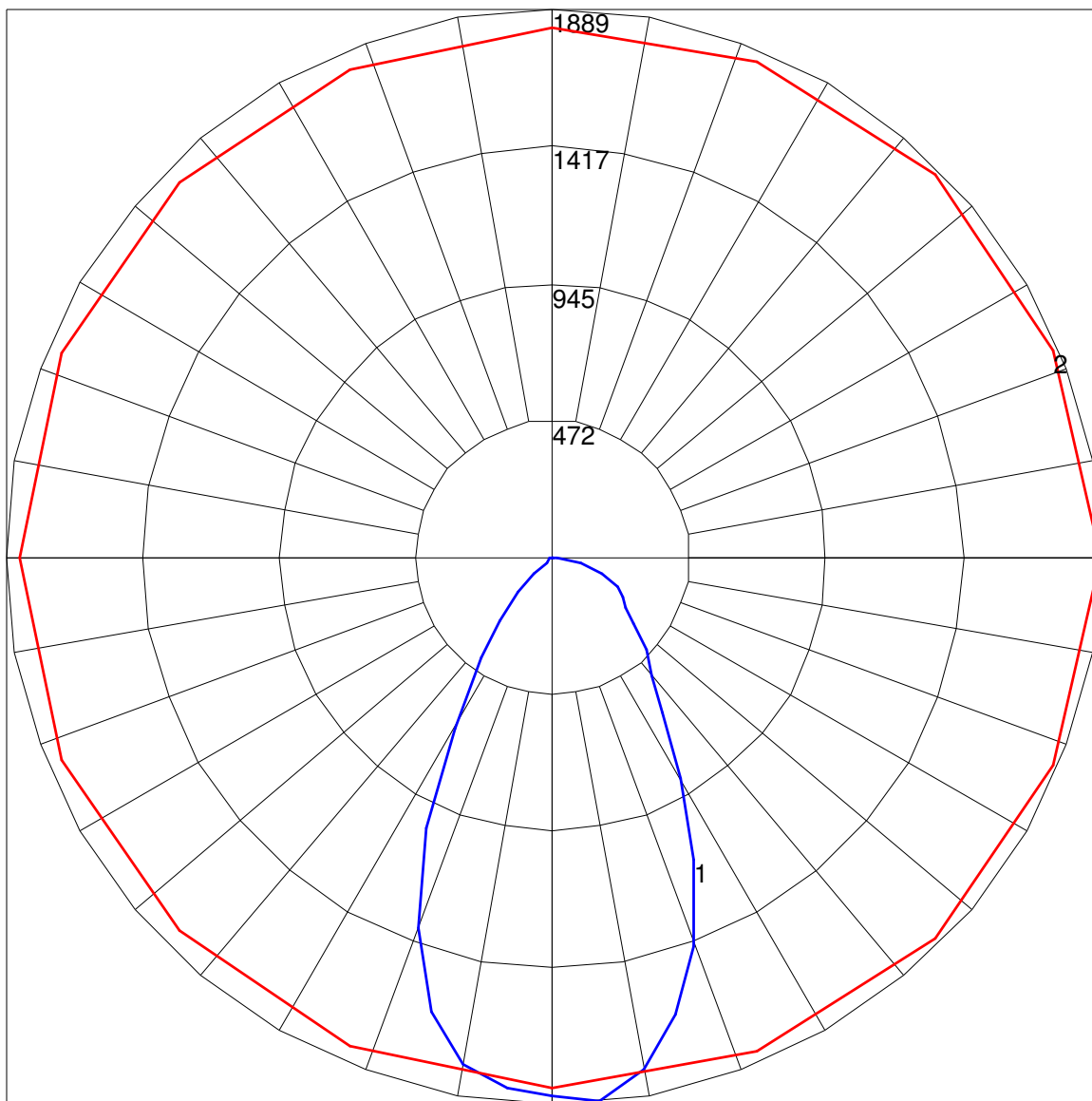
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	111	111	111	111	106	106	106	102	102	102	98	98	98	96
1	108	105	103	100	106	103	101	99	99	97	96	96	94	93	92	91	90	88
2	102	97	93	89	100	95	91	88	92	89	86	89	87	84	87	84	83	81
3	96	90	84	80	94	88	83	80	86	82	78	83	80	77	81	78	76	74
4	91	83	77	73	89	82	77	72	80	75	72	78	74	71	76	73	70	68
5	86	77	71	67	84	76	71	66	75	70	66	73	69	65	71	68	65	63
6	81	72	66	61	80	71	65	61	70	65	61	68	64	60	67	63	60	58
7	77	67	61	57	76	67	61	57	66	60	56	64	60	56	63	59	56	54
8	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
9	69	60	54	49	68	59	53	49	58	53	49	57	52	49	56	52	49	48
10	66	56	50	46	65	56	50	46	55	50	46	54	49	46	53	49	46	45

POLAR GRAPH



Maximum Candela = 1889.176 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.)