



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L20-840-DIM-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20374.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 30-APR-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ FORMED HOUSING DOWNLIGHT

[MORE] ACRYLIC MED TIR OPTIC & 6" CAST WHITE FLUSH SHALLOW TRIM

[MORE] w/SOLITE LENS

[LUMCAT] 6PS-L20-840-DIM-LM-OF-WH

[LAMPCAT] BXRE-35E4000

[_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	1950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	24.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.83 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2571	2183	2727
55	1265	1089	1265
65	619	522	619
75	263	201	263
85	34	32	34

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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	4007.649	4007.649	4007.649	4007.649	4007.649
5	3927.368	3902.280	3900.912	3889.965	3875.368
10	3531.438	3522.315	3518.210	3530.982	3521.859
15	2754.631	2761.017	2778.351	2784.737	2794.772
20	1737.895	1741.088	1751.579	1770.737	1725.123
25	899.053	923.228	942.386	942.842	940.105
30	470.737	468.456	482.140	496.281	516.351
35	268.667	277.333	283.263	290.105	284.175
40	165.123	168.772	174.702	178.807	176.526
45	112.667	115.403	120.421	120.877	119.509
50	82.105	82.105	88.491	84.842	82.105
55	57.018	57.018	63.404	60.667	57.018
60	38.316	39.228	44.702	41.965	39.228
65	27.825	27.825	31.018	28.737	27.825
70	17.789	18.246	20.070	19.158	18.702
75	11.404	11.404	11.860	11.404	11.404
80	6.386	6.386	7.754	6.386	6.386
85	1.368	1.368	1.825	0.456	1.368
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1106.53	N.A.	56.80
0-30	1567.03	N.A.	80.40
0-40	1755.88	N.A.	90.10
0-60	1905.35	N.A.	97.70
0-80	1947.31	N.A.	99.90
0-90	1949.82	N.A.	100.00
10-90	1589.75	N.A.	81.50
20-40	649.35	N.A.	33.30
20-50	744.25	N.A.	38.20
40-70	178.59	N.A.	9.20
60-80	41.96	N.A.	2.20
70-80	12.84	N.A.	0.70
80-90	2.51	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	1949.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	360.07
10-20	746.46
20-30	460.50
30-40	188.85
40-50	94.90
50-60	54.57
60-70	29.12
70-80	12.84
80-90	2.51
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

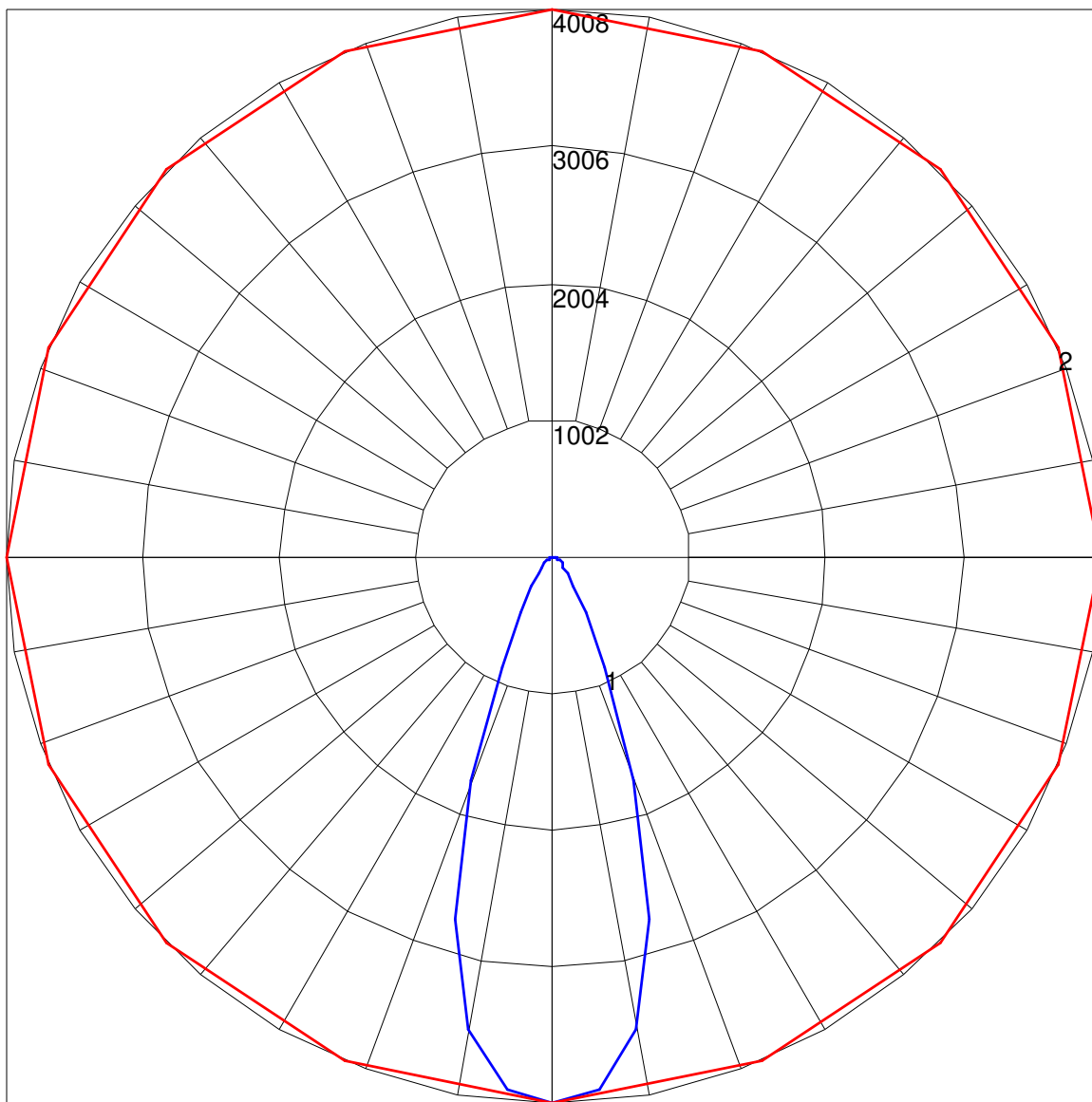
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	54	54	54	54	53	53	53	53	51	51	51	49	49	49	47	47	47	46
1	52	51	50	49	51	50	49	48	48	47	46	46	46	45	45	44	44	43
2	50	47	46	44	49	47	45	44	45	44	43	44	43	42	43	42	41	40
3	47	45	42	41	46	44	42	40	43	41	40	42	40	39	41	40	39	38
4	45	42	40	38	44	41	39	38	41	39	37	40	38	37	39	37	36	36
5	43	40	37	36	43	39	37	35	39	37	35	38	36	35	37	36	34	34
6	41	38	35	33	41	37	35	33	37	35	33	36	34	33	36	34	33	32
7	40	36	33	32	39	36	33	32	35	33	31	35	33	31	34	32	31	31
8	38	34	32	30	38	34	32	30	34	31	30	33	31	30	33	31	30	29
9	37	33	30	29	36	33	30	29	32	30	29	32	30	28	31	30	28	28
10	35	31	29	27	35	31	29	27	31	29	27	31	29	27	30	28	27	27

POLAR GRAPH



Maximum Candela = 4007.649 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.)