



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PS-L20-9DW-DIM-UNV-LM-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20341.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V18 LED 4" TALL HEATSINK 4" SQ FORMED HOUSING DOWNLIGHT

[MORE] ACRYLIC MED TIR OPTIC & 4" CAST SHALLOW WHITE FLUSH TRIM

[MORE] w/SOLITE LENS ADVANCE #XI050C140V054DSM5 @ 1125mA

[LUMCAT] 4PS-L20-9DW-DIM-UNV-LM-OF-WH

[LAMPCAT] BXRE-35E4000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2021
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	54
Total Luminaire Watts	37.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.33 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14723	15895	15505
55	8031	8915	8272
65	5232	5668	5668
75	3738	3738	4272
85	529	1586	1057

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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	4342.925	4342.925	4342.925	4342.925	4342.925
5	4199.950	4187.125	4188.075	4190.450	4202.325
10	3722.575	3709.750	3699.775	3707.375	3717.825
15	2875.175	2837.650	2875.650	2907.475	2855.225
20	1825.425	1810.700	1849.650	1792.175	1812.600
25	994.650	974.700	990.375	1010.800	991.800
30	538.175	510.150	519.175	534.375	537.225
35	290.225	280.725	292.600	300.200	308.275
40	170.050	170.525	175.275	173.375	177.175
45	107.350	107.825	115.900	113.050	113.050
50	70.300	72.200	78.375	75.525	73.625
55	47.500	47.975	52.725	48.925	48.925
60	33.725	34.200	35.625	35.150	34.675
65	22.800	22.800	24.700	23.750	24.700
70	16.150	16.150	16.625	16.625	18.050
75	9.975	9.025	9.975	9.975	11.400
80	5.225	4.750	5.225	5.225	6.175
85	0.475	0.475	1.425	0.950	0.950
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1161.51	N.A.	57.50
0-30	1648.3	N.A.	81.60
0-40	1846.65	N.A.	91.40
0-60	1983.48	N.A.	98.20
0-80	2018.92	N.A.	99.90
0-90	2020.83	N.A.	100.00
10-90	1636.15	N.A.	81.00
20-40	685.14	N.A.	33.90
20-50	775.54	N.A.	38.40
40-70	161.28	N.A.	8.00
60-80	35.44	N.A.	1.80
70-80	10.99	N.A.	0.50
80-90	1.91	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	2020.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	384.67
10-20	776.84
20-30	486.79
30-40	198.35
40-50	90.40
50-60	46.43
60-70	24.46
70-80	10.99
80-90	1.91
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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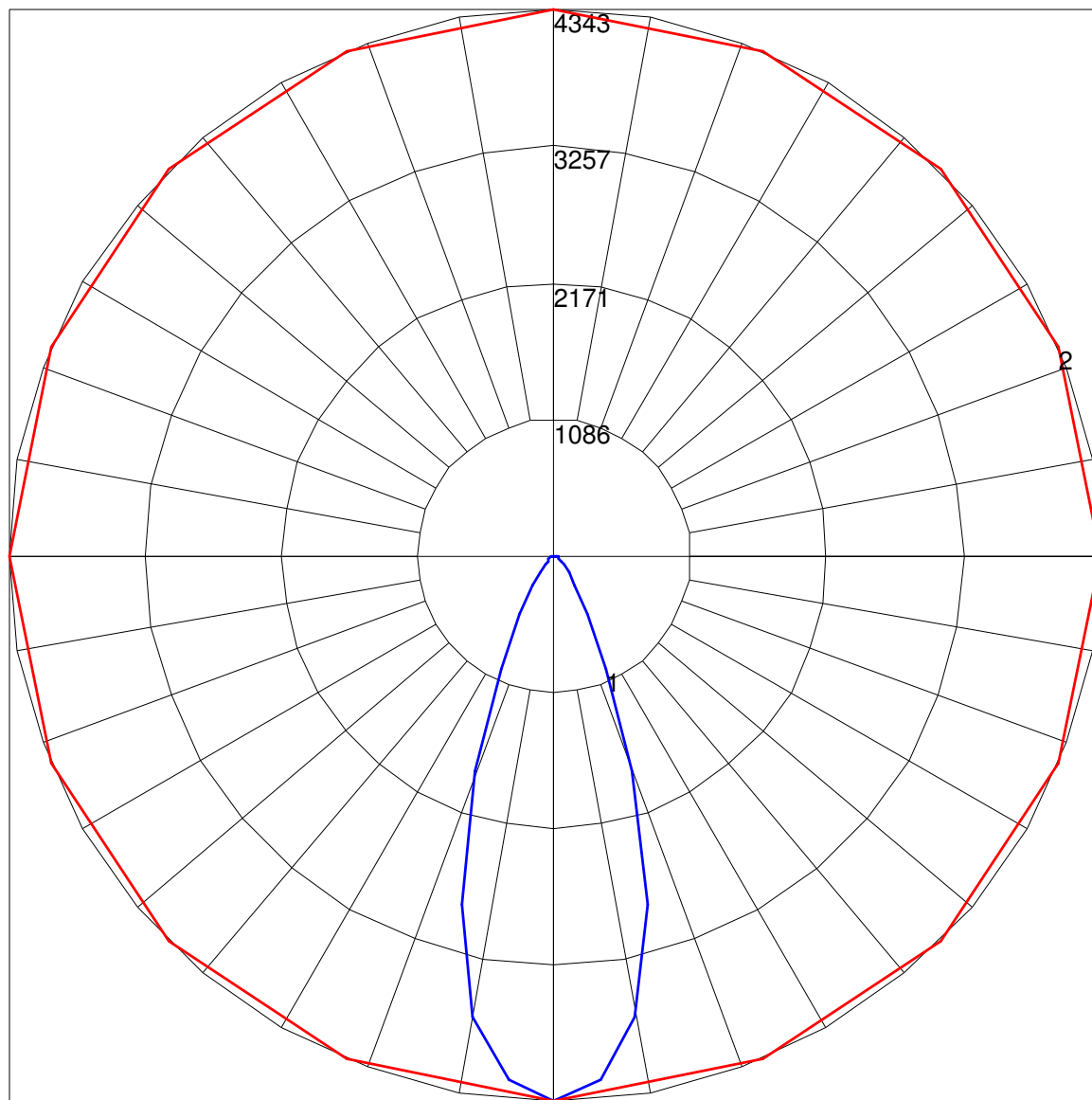
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	57	57	57	57	55	55	55	55	53	53	53	51	51	51	48	48	48	48
1	54	53	52	51	53	52	51	50	50	49	48	48	48	47	47	46	46	45
2	52	50	48	46	51	49	47	46	47	46	45	46	45	44	45	44	43	42
3	49	47	44	43	48	46	44	42	45	43	42	44	42	41	43	41	40	40
4	47	44	42	40	46	43	41	40	42	41	39	42	40	39	41	39	38	38
5	45	42	39	37	45	41	39	37	40	38	37	40	38	37	39	37	36	36
6	43	40	37	35	43	39	37	35	39	36	35	38	36	35	37	36	34	34
7	42	38	35	33	41	37	35	33	37	35	33	36	34	33	36	34	33	32
8	40	36	34	32	39	36	33	32	35	33	32	35	33	31	34	33	31	31
9	39	34	32	30	38	34	32	30	34	32	30	33	31	30	33	31	30	29
10	37	33	31	29	37	33	31	29	32	30	29	32	30	29	32	30	29	28

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POLAR GRAPH



Maximum Candela = 4342.925 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.)