



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20342.0

[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 NARROW TIR OPTIC & 4" CAST SHALLOW WHITE FLUSH TRIM

[MORE] w/SOLITE GLASS LENS ADVANCE #X1050C140V054DSM5 @ 1125mA

[LUMCAT] 4PS-L20-9DW-UNV-LN-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	1956
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)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.54
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	13550	14397	14853
55	9477	10360	10039
65	6213	7303	6867
75	3916	4627	4627
85	0	1057	1586

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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	5104.350	5104.350	5104.350	5104.350	5104.350
5	4807.475	4773.750	4765.675	4743.825	4753.325
10	3903.075	3925.400	3958.175	3956.275	3928.250
15	2694.675	2695.625	2726.975	2731.725	2680.425
20	1574.625	1586.975	1607.875	1642.075	1610.725
25	831.250	839.800	904.400	887.300	883.025
30	421.800	437.475	456.475	446.500	465.975
35	230.375	234.175	247.950	253.175	261.250
40	138.225	139.650	150.100	151.525	160.550
45	98.800	101.175	104.975	106.400	108.300
50	75.050	76.950	80.275	78.850	78.375
55	56.050	57.950	61.275	59.375	59.375
60	40.375	43.225	45.125	43.700	43.700
65	27.075	29.450	31.825	30.875	29.925
70	17.100	18.050	19.950	19.475	19.000
75	10.450	10.450	12.350	12.350	12.350
80	4.750	4.750	5.700	5.700	6.175
85	0.000	0.475	0.950	0.950	1.425
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1179.68	N.A.	60.30
0-30	1606.57	N.A.	82.10
0-40	1773.93	N.A.	90.70
0-60	1910.92	N.A.	97.70
0-80	1953.79	N.A.	99.90
0-90	1955.68	N.A.	100.00
10-90	1526.28	N.A.	78.00
20-40	594.25	N.A.	30.40
20-50	677.68	N.A.	34.70
40-70	167.32	N.A.	8.60
60-80	42.87	N.A.	2.20
70-80	12.54	N.A.	0.60
80-90	1.89	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	1955.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	429.39
10-20	750.29
20-30	426.88
30-40	167.37
40-50	83.42
50-60	53.56
60-70	30.33
70-80	12.54
80-90	1.89
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

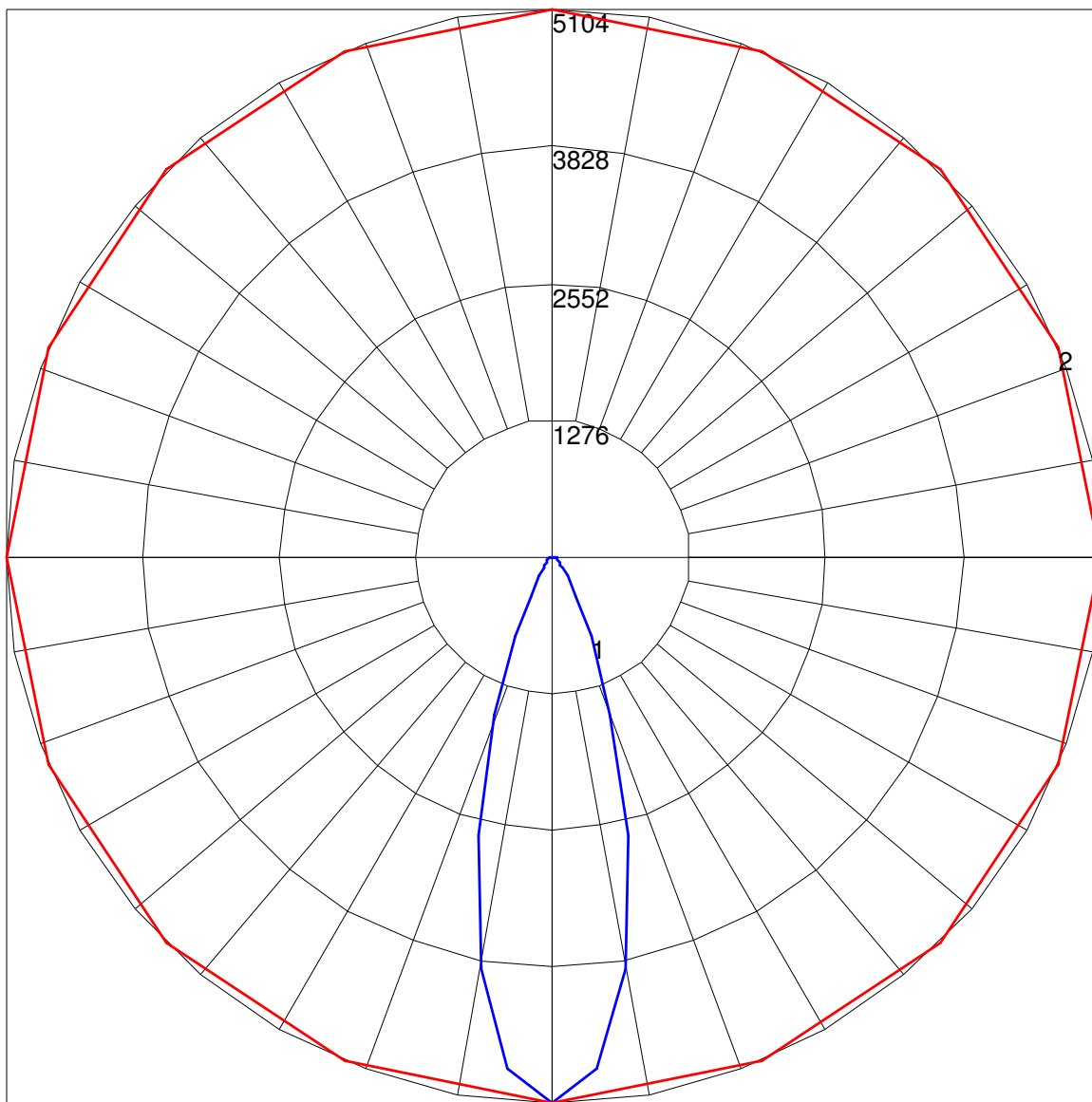
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	45	43	49	46	44	43	45	43	42	44	42	41	43	42	41	40
4	47	44	42	40	47	44	41	40	43	41	39	42	40	39	41	40	38	38
5	45	42	39	38	45	42	39	38	41	39	37	40	38	37	39	38	37	36
6	44	40	37	36	43	40	37	36	39	37	35	38	36	35	38	36	35	34
7	42	38	36	34	41	38	35	34	37	35	34	37	35	33	36	35	33	33
8	40	36	34	32	40	36	34	32	36	34	32	35	33	32	35	33	32	31
9	39	35	33	31	38	35	32	31	34	32	31	34	32	31	34	32	31	30
10	38	34	31	30	37	33	31	30	33	31	30	33	31	30	32	31	29	29

POLAR GRAPH



Maximum Candela = 5104.35 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.)