



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4PS-L20-8TW-DIM-UNV-LN-OF-WH_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20342.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 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-L20-8TW-DIM-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	2019
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	24
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	13990	14864	15335
55	9784	10696	10365
65	6414	7540	7090
75	4043	4778	4778
85	0	1092	1637

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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	5269.898	5269.898	5269.898	5269.898	5269.898
5	4963.395	4928.576	4920.239	4897.681	4907.489
10	4029.663	4052.712	4086.550	4084.588	4055.654
15	2782.071	2783.052	2815.418	2820.323	2767.359
20	1625.695	1638.445	1660.023	1695.332	1662.965
25	858.210	867.037	933.732	916.078	911.664
30	435.480	451.664	471.280	460.981	481.088
35	237.847	241.770	255.992	261.386	269.723
40	142.708	144.179	154.968	156.439	165.757
45	102.004	104.456	108.380	109.851	111.812
50	77.484	79.446	82.879	81.407	80.917
55	57.868	59.829	63.262	61.301	61.301
60	41.684	44.627	46.589	45.117	45.117
65	27.953	30.405	32.857	31.876	30.896
70	17.655	18.635	20.597	20.107	19.616
75	10.789	10.789	12.751	12.751	12.751
80	4.904	4.904	5.885	5.885	6.375
85	0.000	0.490	0.981	0.981	1.471
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1217.94	N.A.	60.30
0-30	1658.67	N.A.	82.10
0-40	1831.47	N.A.	90.70
0-60	1972.9	N.A.	97.70
0-80	2017.16	N.A.	99.90
0-90	2019.11	N.A.	100.00
10-90	1575.79	N.A.	78.00
20-40	613.53	N.A.	30.40
20-50	699.65	N.A.	34.70
40-70	172.74	N.A.	8.60
60-80	44.26	N.A.	2.20
70-80	12.94	N.A.	0.60
80-90	1.95	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	2019.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	443.32
10-20	774.62
20-30	440.73
30-40	172.80
40-50	86.13
50-60	55.30
60-70	31.31
70-80	12.94
80-90	1.95
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

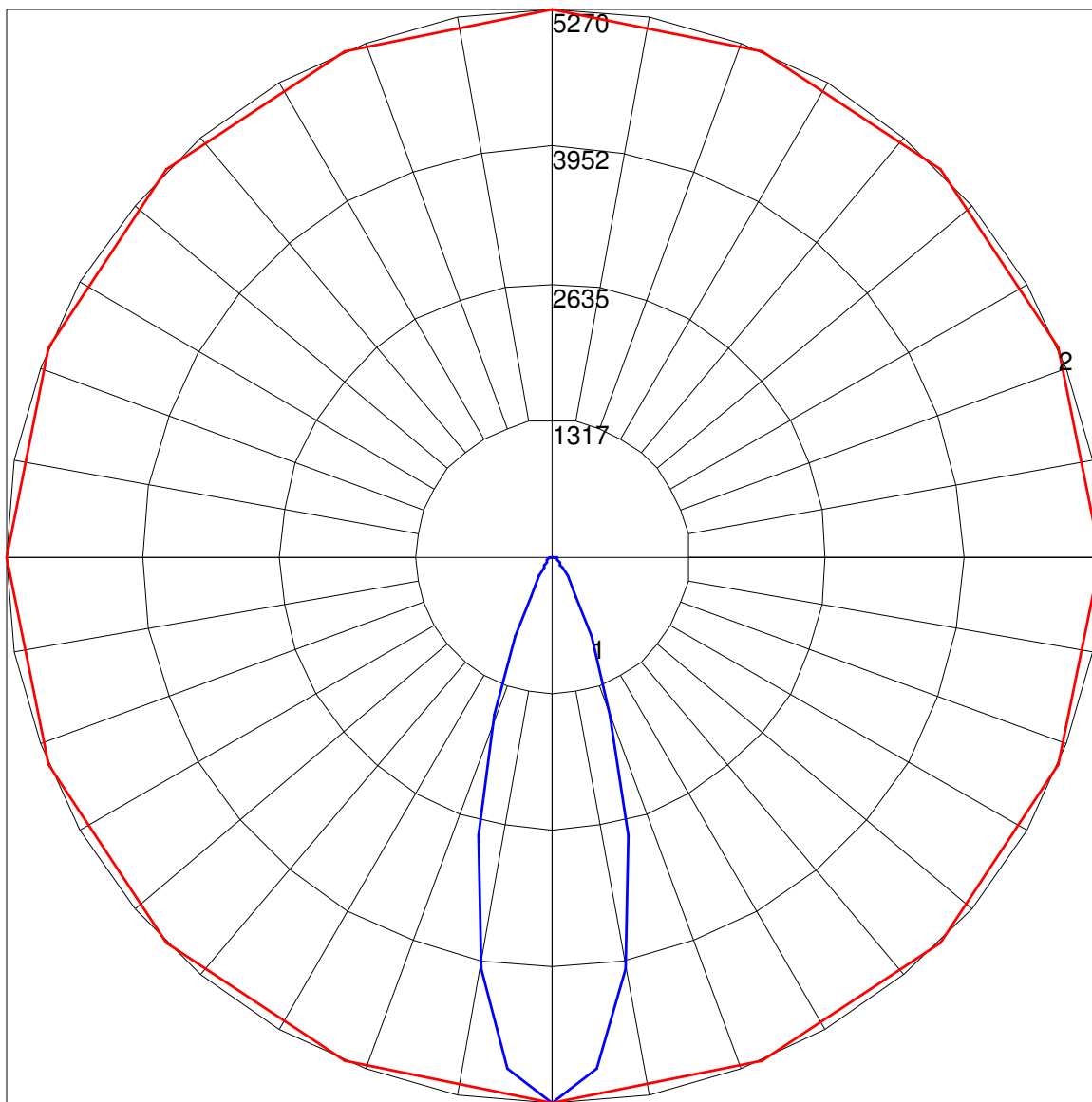
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	81	78	84	80	78	83	79	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63
10	79	71	66	63	78	70	66	62	70	65	62	69	65	62	68	65	62	61

POLAR GRAPH



Maximum Candela = 5269.898 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.)