

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PXX-62-8-00-L10-840-W-XXX-XXX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20132.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 07/07/2025

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

[LUMINAIRE] 2-56 LED 22" ARRAYS RECESSED PERIMETER CONTINUOUS PX

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC LENS

[LUMCAT] PXX-62-8-00-L10-840-W-xxx-xxx-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9030
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.12
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	3.71 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17518	19957	22821
55	14602	17632	18885
65	8564	16603	13944
75	5503	7219	8380
85	1799	2549	3148

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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	4890.594	4890.594	4890.594	4890.594	4890.594	4890.594	4890.594	4890.594	4890.594
5	4964.933	4883.836	4888.342	4879.331	4874.825	4944.659	4888.342	4827.519	4816.255
10	4926.637	4823.014	4861.309	4868.067	4841.035	4888.342	4777.960	4645.051	4629.282
15	4732.906	4638.293	4739.664	4784.718	4757.685	4750.927	4572.965	4374.728	4361.212
20	4347.696	4311.652	4507.637	4633.787	4602.250	4505.384	4221.545	3876.883	3879.136
25	3840.840	3867.872	4208.029	4395.002	4379.233	4230.556	3771.006	3216.844	3171.790
30	3309.205	3419.586	3852.103	4113.416	4081.878	3881.388	3192.065	2484.719	2313.515
35	2849.655	2980.311	3363.269	3752.985	3721.447	3462.388	2554.553	1628.696	1380.900
40	2471.203	2550.047	2878.940	3293.436	3266.403	2980.311	1741.331	982.174	824.485
45	2135.552	2178.353	2432.907	2818.118	2782.075	2378.843	1135.357	596.963	475.318
50	1815.670	1865.229	2054.455	2347.305	2324.778	1754.847	707.345	344.662	252.302
55	1443.976	1615.180	1743.584	1905.777	1867.482	1196.179	421.253	175.710	157.688
60	1018.217	1331.341	1484.524	1531.831	1403.427	752.399	209.500	155.436	150.930
65	623.996	842.507	1209.696	1211.948	1015.964	405.485	137.414	150.930	144.172
70	380.705	425.759	718.609	903.329	664.544	148.678	128.403	139.667	137.414
75	245.543	247.796	322.135	587.953	373.947	83.350	119.393	119.393	105.877
80	119.393	128.403	157.688	184.721	180.215	67.581	87.855	74.339	67.581
85	27.032	27.032	38.296	31.538	47.307	27.032	51.812	31.538	22.527
90	0.000	0.000	4.505	4.505	4.505	9.011	4.505	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1765.71	N.A.	19.60
0-30	3575.35	N.A.	39.60
0-40	5416.86	N.A.	60.00
0-60	8033.57	N.A.	89.00
0-80	8977.17	N.A.	99.40
0-90	9030.24	N.A.	100.00
10-90	8566.56	N.A.	94.90
20-40	3651.16	N.A.	40.40
20-50	5169.25	N.A.	57.20
40-70	3282.83	N.A.	36.40
60-80	943.61	N.A.	10.40
70-80	277.49	N.A.	3.10
80-90	53.07	N.A.	0.60
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	9030.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	463.68
10-20	1302.02
20-30	1809.65
30-40	1841.51
40-50	1518.1
50-60	1098.61
60-70	666.12
70-80	277.49
80-90	53.07
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

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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	77
3	95	86	79	73	92	84	78	72	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59
5	81	70	62	56	80	69	62	56	67	60	55	65	59	55	63	58	54	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32

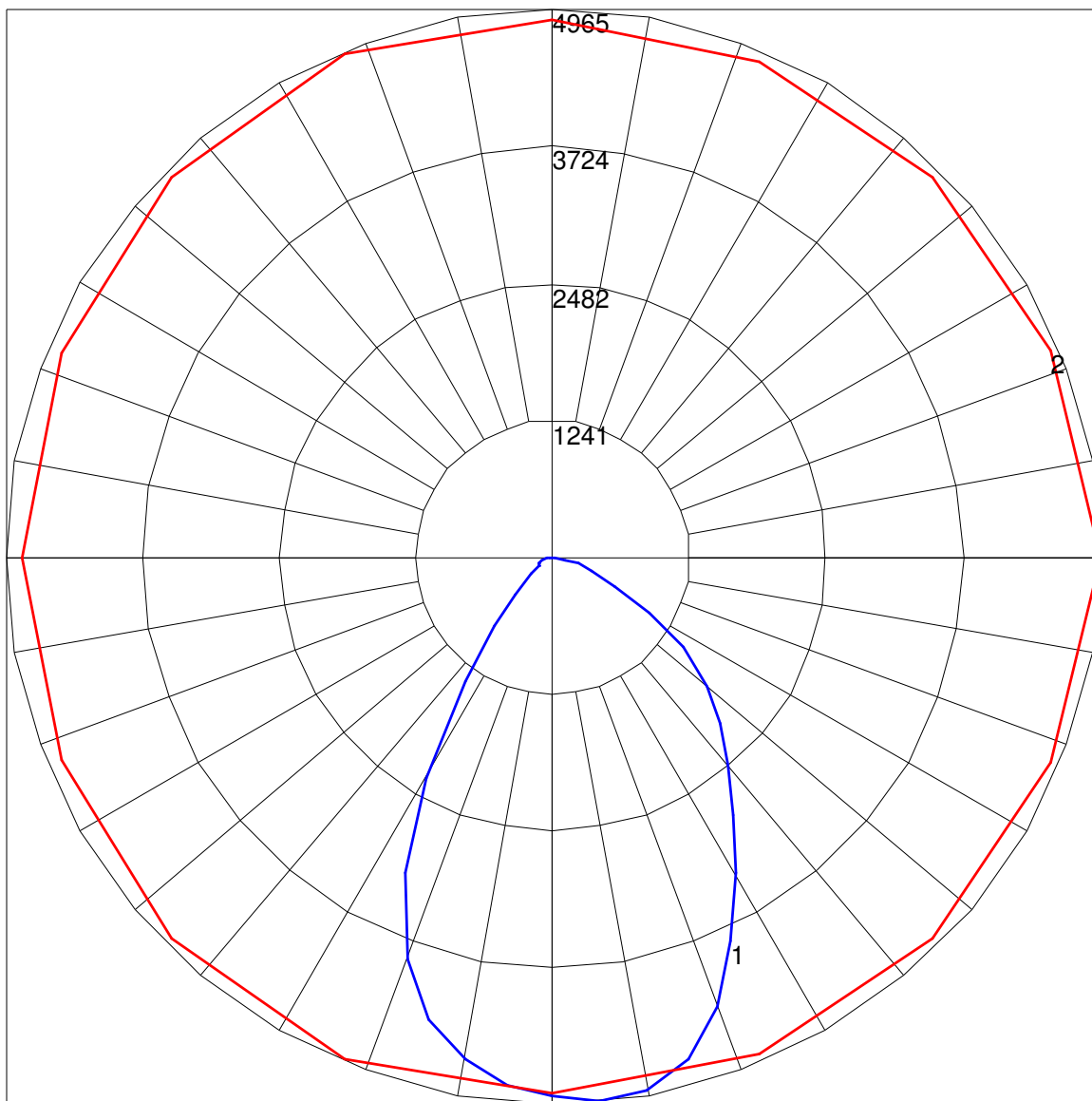
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size											
		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	21.7	23.2	22.1	23.5	23.8	21.7	23.2	22.1	23.5	23.8
	3H	22.3	23.6	22.7	23.9	24.3	23.0	24.2	23.3	24.6	24.9
	4H	22.5	23.7	22.9	24.0	24.4	23.3	24.5	23.7	24.9	25.2
	6H	22.6	23.7	23.0	24.0	24.4	23.5	24.6	23.9	24.9	25.3
	8H	22.5	23.6	23.0	24.0	24.4	23.5	24.5	23.9	24.9	25.3
	12H	22.5	23.5	23.0	23.9	24.3	23.5	24.5	23.9	24.9	25.3
4H	2H	22.6	23.8	23.0	24.1	24.5	22.1	23.3	22.5	23.6	24.0
	3H	23.3	24.3	23.7	24.7	25.1	23.5	24.5	23.9	24.9	25.3
	4H	23.4	24.3	23.9	24.7	25.2	24.0	24.9	24.4	25.3	25.7
	6H	23.6	24.3	24.0	24.8	25.2	24.2	25.0	24.7	25.4	25.9
	8H	23.6	24.3	24.0	24.7	25.2	24.2	24.9	24.7	25.4	25.9
	12H	23.5	24.2	24.0	24.7	25.1	24.2	24.9	24.7	25.3	25.8
8H	4H	23.7	24.4	24.1	24.8	25.3	24.0	24.7	24.5	25.1	25.6
	6H	23.8	24.4	24.3	24.9	25.3	24.2	24.8	24.7	25.3	25.8
	8H	23.8	24.3	24.3	24.8	25.3	24.3	24.8	24.8	25.3	25.8
	12H	23.8	24.3	24.3	24.8	25.3	24.3	24.8	24.8	25.2	25.8
12H	4H	23.6	24.3	24.1	24.8	25.2	23.9	24.6	24.4	25.1	25.5
	6H	23.8	24.3	24.3	24.8	25.3	24.2	24.7	24.7	25.2	25.7
	8H	23.8	24.3	24.3	24.8	25.3	24.3	24.7	24.8	25.2	25.8

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 4964.933 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.)