H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-8-P145-840-POE PR_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 19750.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 01/05/2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 89 INCH LED STRIP LUMINAIRE
[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS
[LUMCAT] 75R-8-P145-840-POE PR
[LAMPCAT] HLM 80 CRI 4000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear
[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14089
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24970	20976	20788
55	20725	17988	18301
65	17229	15148	15417
75	11873	12493	12633
85	7553	10797	10359

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	4512.850	4512.850	4512.850	4512.850	4512.850
5	4562.394	4495.617	4497.771	4487.001	4441.764
10	4487.001	4430.994	4441.764	4435.302	4394.374
15	4355.600	4314.672	4344.830	4357.754	4314.672
20	4157.423	4146.652	4198.351	4219.892	4194.042
25	3924.779	3939.858	4013.098	4062.642	4043.255
30	3657.670	3679.211	3804.149	3879.543	3875.235
35	3332.400	3371.174	3552.119	3657.670	3672.749
40	2985.589	3013.593	3241.928	3401.332	3437.951
45	2576.310	2647.395	2910.196	3121.298	3172.997
50	2151.951	2266.118	2587.080	2817.569	2882.192
55	1744.825	1893.458	2255.348	2496.608	2589.234
60	1404.476	1542.339	1936.540	2177.800	2274.735
65	1079.207	1229.994	1639.274	1858.993	1943.003
70	756.091	958.577	1357.086	1548.801	1630.657
75	465.287	723.779	1096.439	1277.384	1348.470
80	258.493	499.752	874.567	1042.587	1087.823
85	109.859	344.657	697.930	842.255	872.413
90	15.079	236.952	540.680	667.773	708.701
95	2.154	161.558	432.975	529.910	572.992
100	0.000	105.551	336.040	432.975	467.441
105	0.000	75.394	260.647	353.273	381.277
110	0.000	51.699	200.332	288.650	312.345
115	0.000	43.082	163.712	241.260	258.493
120	0.000	32.312	124.938	198.178	215.410
125	0.000	19.387	92.627	157.250	176.637
130	0.000	12.925	66.777	122.784	140.017
135	0.000	6.462	49.544	96.935	109.859
140	0.000	6.462	34.466	75.394	86.164
145	0.000	0.000	21.541	47.390	60.315
150	0.000	0.000	15.079	34.466	43.082
155	0.000	0.000	10.771	17.233	28.003
160	0.000	0.000	4.308	12.925	15.079
165	0.000	0.000	0.000	4.308	6.462
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1650.23	N.A.	11.70
0-30	3493.54	N.A.	24.80
0-40	5693.18	N.A.	40.40
0-60	9897.22	N.A.	70.20
0-80	12513.9	N.A.	88.80
0-90	13171.57	N.A.	93.50
10-90	12744.32	N.A.	90.50
20-40	4042.95	N.A.	28.70
20-50	6271.73	N.A.	44.50
40-70	5753.96	N.A.	40.80
60-80	2616.68	N.A.	18.60
70-80	1066.76	N.A.	7.60
80-90	657.67	N.A.	4.70
90-110	627.61	N.A.	4.50
90-120	771.50	N.A.	5.50
90-130	853.18	N.A.	6.10
90-150	911.49	N.A.	6.50
90-180	917.60	N.A.	6.50
110-180	289.99	N.A.	2.10
0-180	14089.16	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	427.25
10-20	1222.98
20-30	1843.31
30-40	2199.64
40-50	2228.78
50-60	1975.25
60-70	1549.92
70-80	1066.76
80-90	657.67
90-100	391.57
100-110	236.04
110-120	143.89
120-130	81.68
130-140	41.27
140-150	17.05
150-160	5.33
160-170	0.78
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	61	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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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	19.6	21.1	20.0	21.5	22.0	23.0	24.5	23.5	25.0	25.4
	3H	20.8	22.1	21.2	22.6	23.1	25.2	26.6	25.7	27.1	27.6
	4H	21.1	22.4	21.6	22.9	23.4	26.3	27.6	26.8	28.0	28.6
	6H	21.3	22.5	21.8	23.0	23.5	27.3	28.5	27.9	29.0	29.6
	8H	21.3	22.4	21.8	23.0	23.5	27.9	29.0	28.4	29.5	30.1
	12H	21.3	22.4	21.8	22.9	23.5	28.5	29.6	29.0	30.1	30.7
4H	2H	20.6	21.9	21.2	22.4	23.0	23.3	24.6	23.8	25.1	25.6
	3H	22.1	23.2	22.6	23.7	24.3	25.8	26.9	26.3	27.4	27.9
	4H	22.5	23.5	23.1	24.1	24.7	27.0	28.0	27.5	28.5	29.1
	6H	22.8	23.7	23.4	24.3	24.9	28.2	29.1	28.8	29.7	30.3
	8H	22.9	23.7	23.5	24.3	24.9	28.9	29.7	29.4	30.2	30.9
	12H	22.9	23.7	23.5	24.3	24.9	29.6	30.3	30.2	30.9	31.5
8H	4H	23.3	24.1	23.9	24.7	25.3	27.1	27.9	27.7	28.5	29.1
	6H	23.8	24.5	24.4	25.1	25.7	28.5	29.2	29.1	29.8	30.4
	8H	23.9	24.6	24.6	25.2	25.8	29.3	29.9	29.9	30.5	31.2
	12H	24.0	24.6	24.6	25.2	25.9	30.2	30.7	30.8	31.3	32.0
12H	4H	23.5	24.3	24.1	24.9	25.5	27.1	27.9	27.7	28.5	29.1
	6H	24.1	24.7	24.7	25.3	26.0	28.6	29.2	29.2	29.8	30.4
	8H	24.3	24.9	25.0	25.5	26.2	29.4	29.9	30.0	30.5	31.2

Maximum UGR = 32.0

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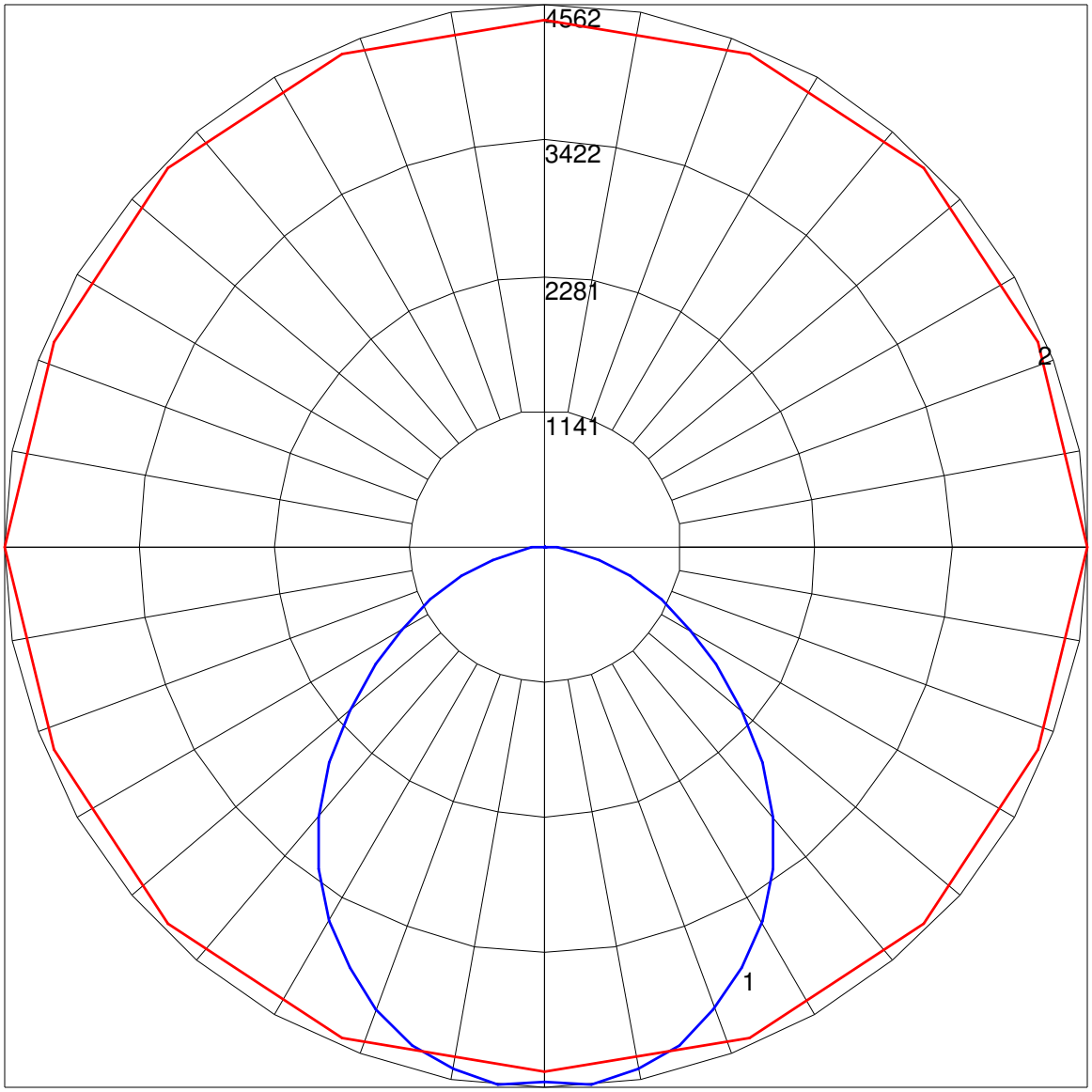
POLAR GRAPH



Maximum Candela = 4562.394 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.)

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