



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-P145-8TW-POE\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-P145-8TW-PoE

[\_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	13705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	91.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24943	20029	18822
55	21244	16821	16866
65	16808	14409	15321
75	11763	11821	13592
85	5625	10095	11915

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-8-P145-8TW-POE\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4624.155	4624.155	4624.155	4624.155	4624.155
5	4663.928	4605.315	4603.221	4592.755	4538.328
10	4584.382	4532.048	4536.235	4523.675	4473.435
15	4456.689	4406.449	4419.009	4406.449	4364.582
20	4243.170	4205.490	4243.170	4224.330	4180.370
25	3979.411	3964.757	3998.251	3996.157	3931.264
30	3688.438	3694.718	3732.398	3732.398	3652.852
35	3332.573	3382.813	3401.653	3407.933	3326.293
40	2945.308	3020.668	3003.921	3037.414	2995.548
45	2566.416	2633.403	2629.216	2689.922	2679.456
50	2179.151	2239.858	2288.004	2390.577	2411.510
55	1781.419	1856.779	1963.539	2116.351	2185.431
60	1406.714	1498.821	1680.940	1869.339	1959.352
65	1046.662	1193.195	1421.368	1636.980	1729.086
70	718.010	910.596	1155.515	1389.968	1498.821
75	456.345	640.557	916.876	1151.329	1260.182
80	249.106	427.038	720.104	933.623	1034.103
85	79.546	261.666	546.358	736.850	831.050
90	0.000	169.559	416.572	594.504	659.397
95	0.000	154.906	389.358	544.264	581.944
100	0.000	146.533	362.145	496.118	529.611
105	0.000	133.973	339.119	458.438	491.931
110	0.000	125.599	316.092	429.132	462.625
115	0.000	115.133	288.879	401.918	433.318
120	0.000	98.386	259.572	364.239	401.918
125	0.000	81.640	234.452	332.839	366.332
130	0.000	66.986	203.053	297.252	320.279
135	0.000	60.706	163.279	257.479	280.506
140	0.000	50.240	127.693	215.612	238.639
145	0.000	39.773	98.386	167.466	190.493
150	0.000	29.307	75.360	127.693	146.533
155	0.000	23.027	60.706	92.106	106.760
160	0.000	0.000	43.960	66.986	75.360
165	0.000	0.000	29.307	48.146	52.333
170	0.000	0.000	0.000	29.307	31.400
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-8-P145-8TW-POE\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1678.67	N.A.	12.20
0-30	3511.37	N.A.	25.60
0-40	5621.01	N.A.	41.00
0-60	9445.27	N.A.	68.90
0-80	11795.16	N.A.	86.10
0-90	12356.27	N.A.	90.20
10-90	11919.35	N.A.	87.00
20-40	3942.34	N.A.	28.80
20-50	5988.53	N.A.	43.70
40-70	5222.07	N.A.	38.10
60-80	2349.89	N.A.	17.10
70-80	952.08	N.A.	6.90
80-90	561.11	N.A.	4.10
90-110	690.43	N.A.	5.00
90-120	943.18	N.A.	6.90
90-130	1129.39	N.A.	8.20
90-150	1314.18	N.A.	9.60
90-180	1348.81	N.A.	9.80
110-180	658.38	N.A.	4.80
0-180	13705.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	436.92
10-20	1241.75
20-30	1832.7
30-40	2109.64
40-50	2046.19
50-60	1778.07
60-70	1397.81
70-80	952.08
80-90	561.11
90-100	377.77
100-110	312.66
110-120	252.75
120-130	186.20
130-140	120.67
140-150	64.12
150-160	26.83
160-170	7.40
170-180	0.40

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-8-P145-8TW-POE\_.IES**

**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	232	232	232	232	224	224	224	224	210	210	210	197	197	197	185	185	185	179
1	210	200	191	183	203	194	185	178	181	175	169	170	165	160	160	156	152	146
2	191	174	160	149	184	169	156	145	158	148	139	149	140	133	140	133	127	122
3	174	153	137	124	168	148	133	121	140	127	117	132	121	112	124	115	108	103
4	160	136	118	105	154	132	116	103	124	111	100	118	106	96	111	101	93	88
5	147	122	104	91	141	118	102	89	112	98	87	106	94	84	100	90	81	77
6	136	110	92	79	131	107	90	78	101	87	76	96	83	74	91	80	72	67
7	126	100	82	70	122	97	81	69	92	78	68	88	75	66	83	72	64	60
8	117	91	74	63	113	89	73	62	85	71	61	81	68	59	77	66	58	54
9	110	84	67	57	106	82	66	56	78	64	55	74	62	53	71	60	52	48
10	103	77	62	51	100	75	61	51	72	59	50	69	57	49	66	55	48	44

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-8-P145-8TW-POE\_.IES**

**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

X=2H	Y=2H	18.3	19.8	18.9	20.3	20.8	19.7	21.1	20.2	21.6	22.2
	3H	19.8	21.0	20.3	21.6	22.2	22.1	23.4	22.6	23.9	24.5
	4H	20.2	21.4	20.8	22.0	22.6	23.2	24.4	23.8	25.0	25.6
	6H	20.5	21.6	21.1	22.2	22.8	24.4	25.5	25.0	26.1	26.7
	8H	20.6	21.7	21.2	22.2	22.9	25.0	26.1	25.6	26.6	27.3
	12H	20.6	21.7	21.2	22.2	22.9	25.6	26.7	26.2	27.2	27.9

UGR Viewed Endwise

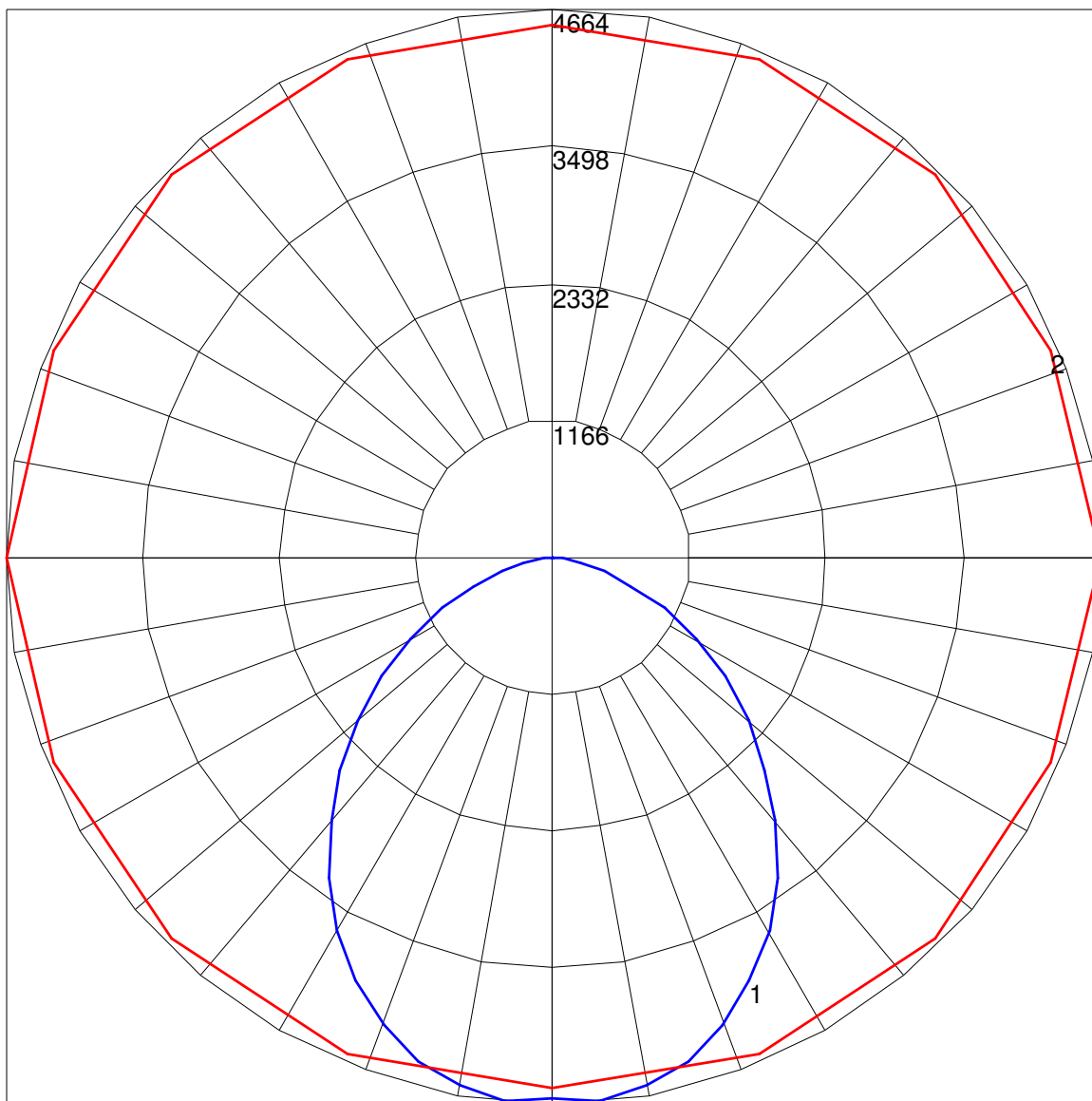
4H	2H	18.9	20.2	19.5	20.7	21.3	20.0	21.2	20.6	21.8	22.4
	3H	20.6	21.6	21.2	22.2	22.8	22.6	23.7	23.2	24.3	24.9
	4H	21.2	22.1	21.8	22.7	23.4	24.0	24.9	24.5	25.5	26.1
	6H	21.6	22.4	22.2	23.0	23.7	25.3	26.1	25.9	26.7	27.4
	8H	21.7	22.5	22.3	23.1	23.8	26.0	26.8	26.6	27.4	28.1
	12H	21.8	22.5	22.4	23.1	23.8	26.8	27.5	27.4	28.1	28.8

8H	4H	21.6	22.4	22.2	23.0	23.7	24.1	24.9	24.7	25.5	26.2
	6H	22.2	22.8	22.8	23.5	24.2	25.6	26.2	26.2	26.9	27.6
	8H	22.4	23.0	23.0	23.6	24.3	26.4	27.0	27.1	27.7	28.4
	12H	22.5	23.1	23.2	23.7	24.5	27.3	27.9	28.0	28.5	29.3

12H	4H	21.7	22.4	22.3	23.0	23.7	24.1	24.8	24.7	25.4	26.1
	6H	22.4	22.9	23.0	23.6	24.3	25.6	26.2	26.3	26.8	27.6
	8H	22.6	23.2	23.3	23.8	24.6	26.5	27.0	27.1	27.7	28.4

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 4663.928 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.)