



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L60-835-DIM LINE-120_.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] 02-03-2023

[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-L60-835-DIM LINE-120

[LAMPCAT] HLM 80 CRI 3500K 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	6146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	40.2
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	11186	8982	8441
55	9527	7543	7563
65	7538	6462	6871
75	5275	5301	6096
85	2523	4527	5343

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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	2073.700	2073.700	2073.700	2073.700	2073.700
5	2091.536	2065.251	2064.313	2059.619	2035.211
10	2055.864	2032.395	2034.273	2028.640	2006.110
15	1998.600	1976.070	1981.703	1976.070	1957.295
20	1902.848	1885.950	1902.848	1894.399	1874.685
25	1784.565	1777.994	1793.014	1792.075	1762.974
30	1654.079	1656.895	1673.792	1673.792	1638.120
35	1494.491	1517.021	1525.470	1528.286	1491.675
40	1320.822	1354.617	1347.107	1362.127	1343.352
45	1150.908	1180.948	1179.071	1206.295	1201.601
50	977.239	1004.463	1026.054	1072.053	1081.441
55	798.877	832.672	880.548	949.077	980.056
60	630.840	672.145	753.817	838.304	878.671
65	469.375	535.088	637.412	734.103	775.408
70	321.991	408.357	518.190	623.330	672.145
75	204.648	287.258	411.173	516.313	565.128
80	111.711	191.505	322.930	418.683	463.743
85	35.673	117.344	245.014	330.440	372.684
90	0.000	76.039	186.811	266.605	295.706
95	0.000	69.468	174.608	244.075	260.973
100	0.000	65.713	162.404	222.484	237.504
105	0.000	60.080	152.078	205.586	220.606
110	0.000	56.325	141.751	192.444	207.464
115	0.000	51.631	129.548	180.240	194.321
120	0.000	44.121	116.405	163.343	180.240
125	0.000	36.611	105.140	149.261	164.281
130	0.000	30.040	91.059	133.303	143.629
135	0.000	27.224	73.223	115.466	125.793
140	0.000	22.530	57.264	96.691	107.018
145	0.000	17.836	44.121	75.100	85.426
150	0.000	13.143	33.795	57.264	65.713
155	0.000	10.326	27.224	41.305	47.876
160	0.000	0.000	19.714	30.040	33.795
165	0.000	0.000	13.143	21.591	23.469
170	0.000	0.000	0.000	13.143	14.081
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	752.80	N.A.	12.20
0-30	1574.67	N.A.	25.60
0-40	2520.74	N.A.	41.00
0-60	4235.73	N.A.	68.90
0-80	5289.53	N.A.	86.10
0-90	5541.16	N.A.	90.20
10-90	5345.23	N.A.	87.00
20-40	1767.94	N.A.	28.80
20-50	2685.55	N.A.	43.70
40-70	2341.84	N.A.	38.10
60-80	1053.81	N.A.	17.10
70-80	426.96	N.A.	6.90
80-90	251.63	N.A.	4.10
90-110	309.62	N.A.	5.00
90-120	422.97	N.A.	6.90
90-130	506.47	N.A.	8.20
90-150	589.34	N.A.	9.60
90-180	604.87	N.A.	9.80
110-180	295.25	N.A.	4.80
0-180	6146.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	195.94
10-20	556.86
20-30	821.87
30-40	946.07
40-50	917.61
50-60	797.38
60-70	626.85
70-80	426.96
80-90	251.63
90-100	169.41
100-110	140.21
110-120	113.35
120-130	83.50
130-140	54.12
140-150	28.76
150-160	12.03
160-170	3.32
170-180	0.18

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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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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UGR TABLE - CORRECTED

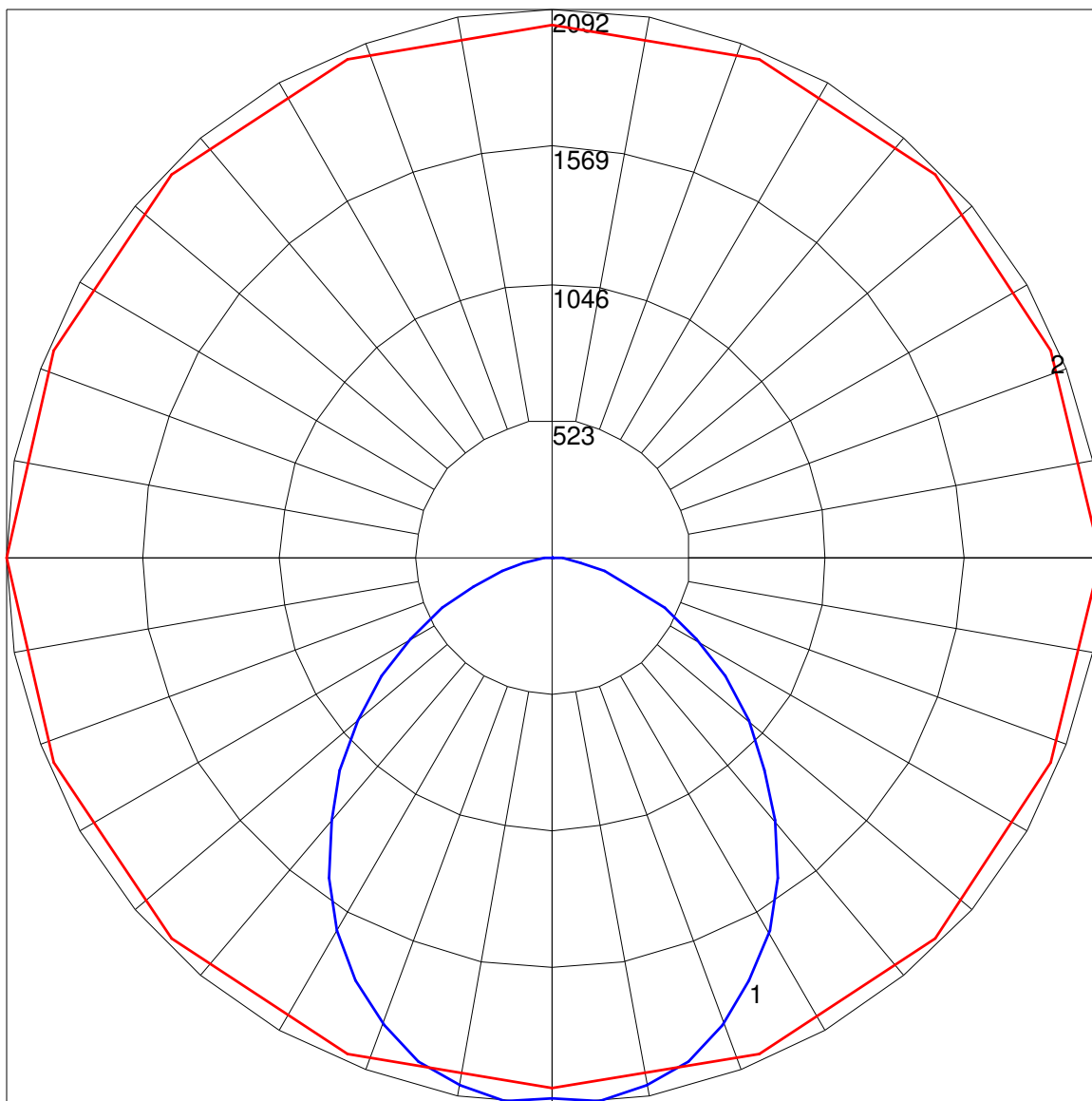
Reflectances

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	17.0	18.4	17.5	18.9	19.5	19.3	20.7	19.8	21.2	21.8
	3H	18.2	19.4	18.7	20.0	20.5	21.7	23.0	22.2	23.5	24.1
	4H	18.5	19.7	19.0	20.2	20.8	22.8	24.0	23.4	24.6	25.2
	6H	18.6	19.8	19.2	20.3	20.9	24.0	25.1	24.6	25.7	26.3
	8H	18.6	19.7	19.2	20.3	20.9	24.6	25.7	25.2	26.2	26.9
	12H	18.6	19.7	19.2	20.2	20.9	25.2	26.3	25.8	26.8	27.5
4H	2H	17.8	19.0	18.4	19.6	20.2	19.6	20.8	20.2	21.4	22.0
	3H	19.2	20.3	19.8	20.8	21.5	22.2	23.3	22.8	23.9	24.5
	4H	19.7	20.6	20.3	21.2	21.9	23.6	24.5	24.1	25.1	25.7
	6H	19.9	20.8	20.5	21.4	22.0	24.9	25.7	25.5	26.3	27.0
	8H	20.0	20.8	20.6	21.4	22.1	25.6	26.4	26.2	27.0	27.7
	12H	20.0	20.7	20.6	21.3	22.0	26.4	27.1	27.0	27.7	28.4
8H	4H	20.3	21.1	20.9	21.7	22.4	23.7	24.5	24.3	25.1	25.8
	6H	20.8	21.4	21.4	22.1	22.7	25.2	25.8	25.8	26.5	27.2
	8H	20.9	21.5	21.5	22.1	22.8	26.0	26.6	26.7	27.3	28.0
	12H	20.9	21.5	21.6	22.1	22.9	26.9	27.5	27.6	28.1	28.9
12H	4H	20.5	21.2	21.1	21.8	22.5	23.7	24.4	24.3	25.0	25.7
	6H	21.0	21.6	21.7	22.3	23.0	25.2	25.8	25.9	26.4	27.2
	8H	21.2	21.8	21.9	22.4	23.2	26.1	26.6	26.7	27.2	28.0

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 2091.536 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.)