



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L80-835-DIM-UNV-OW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia see: www.ltioptics.com/ies
[ISSUE DATE]
[TEST DATE] 03/24/2021
[TEST] H. E. WILLIAMS PHOTOMETRIC REPORT #W00538
[MANUFACTURER] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMEN CATEGORY] 6DR-TL-L80-835-DIM-UNV-OW-OF-WH
[LUMINAIRE] 6 INCH ROUND LED DOWNLIGHT
[MORE] WITH WHITE TEXTURE PAINTED TRIM REFL
[LAMP] Bridgelux V22
[LAMP CATEGORY] CLU048-1212C4-303M2M2-F1

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	79.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	0.96
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.58 ft
Luminous Width (90-270)	0.58 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	46124	45811	45990
55	40883	40938	41048
65	32454	32454	32753
75	24543	24787	24787
85	14867	14142	14504

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CANDELA TABULATION

	<u>0</u>	<u>23</u>	<u>45</u>	<u>68</u>	<u>90</u>
0	4739	4739	4739	4739	4739
5	4687	4773	4780	4747	4725
10	4679	4687	4704	4680	4663
15	4619	4553	4594	4584	4535
20	4523	4480	4496	4495	4507
25	4414	4416	4408	4386	4380
30	3713	3740	3733	3721	3762
35	1535	1524	1527	1532	1522
40	1083	1068	1068	1066	1077
45	1032	1027	1025	1028	1029
50	917	914	916	917	914
55	742	751	743	744	745
60	582	572	581	581	574
65	434	432	434	433	438
70	306	311	311	307	311
75	201	200	203	202	203
80	114	111	113	114	113
85	41	41	39	41	40
90	1	1	2	2	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1748.31	N.A.	24.70
0-30	3711.03	N.A.	52.50
0-40	4919.22	N.A.	69.60
0-60	6367.43	N.A.	90.00
0-80	7019.33	N.A.	99.20
0-90	7072.44	N.A.	100.00
10-90	6621.4	N.A.	93.60
20-40	3170.91	N.A.	44.80
20-50	3952.07	N.A.	55.90
40-70	1882.33	N.A.	26.60
60-80	651.90	N.A.	9.20
70-80	217.78	N.A.	3.10
80-90	53.11	N.A.	0.80
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	7072.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	451.04
10-20	1297.27
20-30	1962.72
30-40	1208.2
40-50	781.16
50-60	667.05
60-70	434.12
70-80	217.78
80-90	53.11
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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40	49	43	40	48	43	39	38

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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

X=2H	Y=2H	23.3	24.6	23.7	24.9	25.3	23.3	24.6	23.7	24.9	25.3
	3H	24.6	25.8	25.0	26.1	26.5	24.6	25.8	25.0	26.1	26.5
	4H	25.1	26.2	25.5	26.5	26.9	25.1	26.2	25.5	26.5	26.9
	6H	25.3	26.4	25.8	26.7	27.1	25.4	26.4	25.8	26.8	27.2
	8H	25.4	26.4	25.9	26.8	27.2	25.4	26.4	25.9	26.8	27.2
	12H	25.5	26.4	25.9	26.8	27.2	25.5	26.4	25.9	26.8	27.2

UGR Viewed Endwise

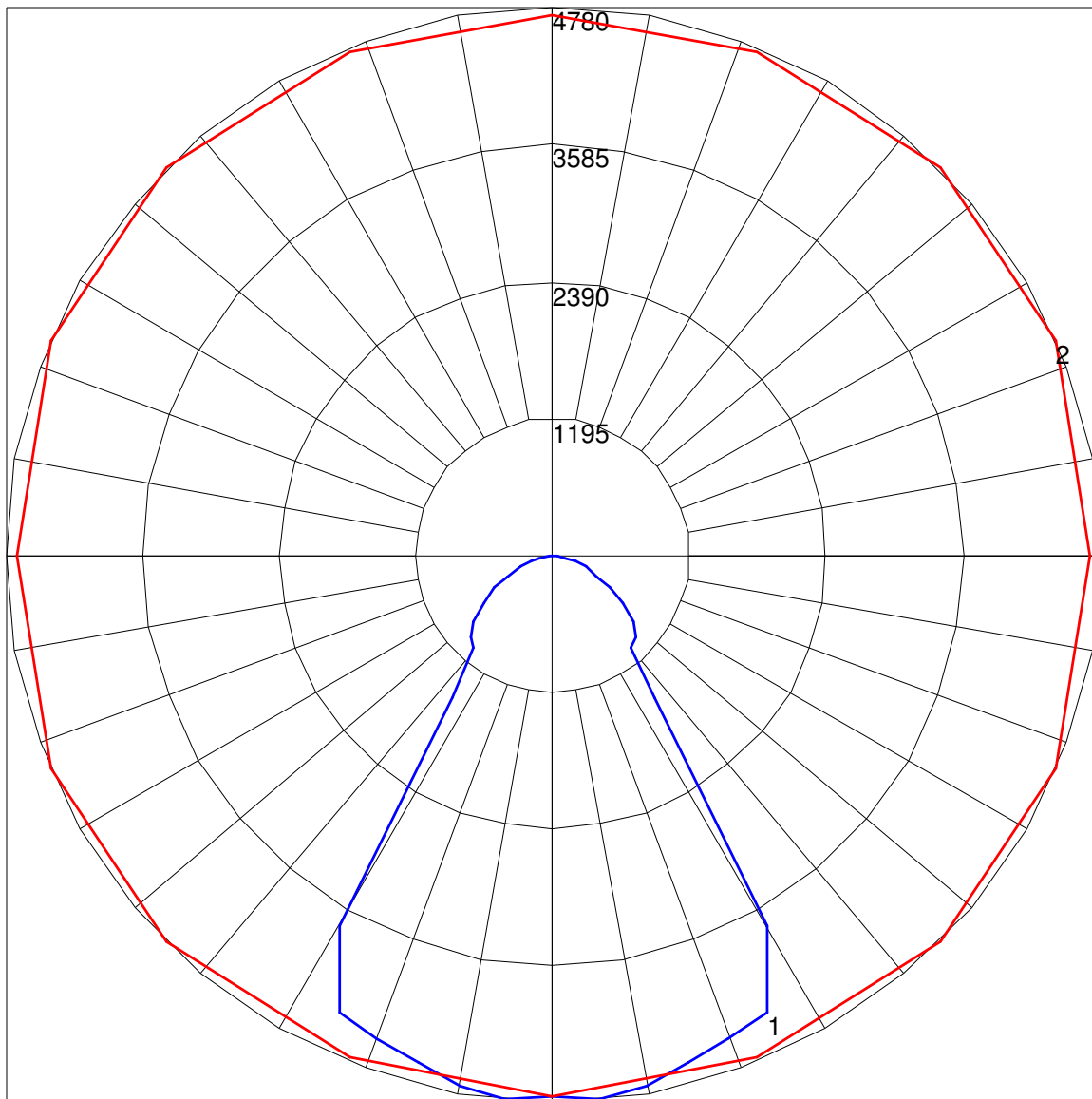
4H	2H	23.7	24.8	24.1	25.2	25.6	23.7	24.8	24.1	25.2	25.6
	3H	25.3	26.2	25.7	26.6	27.0	25.3	26.2	25.7	26.6	27.0
	4H	25.8	26.6	26.2	27.0	27.5	25.8	26.6	26.3	27.1	27.5
	6H	26.2	26.9	26.7	27.4	27.8	26.2	26.9	26.7	27.4	27.8
	8H	26.3	27.0	26.8	27.4	27.9	26.3	27.0	26.8	27.4	27.9
	12H	26.4	26.9	26.9	27.4	27.9	26.4	27.0	26.9	27.4	27.9

8H	4H	26.0	26.6	26.4	27.1	27.6	26.0	26.6	26.5	27.1	27.6
	6H	26.5	27.0	27.0	27.5	28.0	26.5	27.0	27.0	27.5	28.0
	8H	26.6	27.1	27.1	27.6	28.1	26.6	27.1	27.2	27.6	28.1
	12H	26.7	27.2	27.2	27.7	28.2	26.8	27.2	27.3	27.7	28.2

12H	4H	26.0	26.6	26.5	27.0	27.5	26.0	26.6	26.5	27.1	27.5
	6H	26.5	27.0	27.0	27.4	28.0	26.5	27.0	27.0	27.5	28.0
	8H	26.7	27.1	27.2	27.6	28.2	26.7	27.1	27.2	27.6	28.2

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 4780 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)