



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L18-8TW-OM-CS-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMEN CATEGORY] 8DR-TL-L18/8TW-OM-CS-DIM-UNV 4000k

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) TUNABLE WHITE ELECTRONIC DRIVER.

[MOUNTING] RECESSED

[ABSOLUTE] TEST ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS

[MORE] CREATED USING A 1000 WATT, NIST TRACEABLE, OMNIDIRECTIONAL

[MORE] LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH A TEST

[MORE] DISTANCE OF 28 FEET

[ABSOLUTE NOTE] DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[ABSOLUTE LUMENS] 10287

[CONVERT] Photometric web converted from original test data

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	23.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.71 ft (Diameter)
Luminous Width (90-270)	0.71 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2804	2804	2804
55	448	448	448
65	310	310	310
75	206	206	206
85	111	111	111

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CANDELA TABULATION

	<u>0</u>
0.0	2539.702
2.5	2552.493
5.0	2547.341
7.5	2467.575
10.0	2457.449
12.5	2309.644
15.0	2141.408
17.5	1949.544
20.0	1727.480
22.5	1489.783
25.0	1242.670
27.5	1034.108
30.0	821.637
32.5	623.911
35.0	463.670
37.5	327.411
40.0	213.004
42.5	129.152
45.0	72.659
47.5	33.576
50.0	15.811
52.5	11.725
55.0	9.416
57.5	7.994
60.0	6.751
62.5	5.685
65.0	4.796
67.5	3.909
70.0	3.198
72.5	2.665
75.0	1.954
77.5	1.421
80.0	0.888
82.5	0.711
85.0	0.355
87.5	0.178
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	829.87	N.A.	46.60
0-30	1400.91	N.A.	78.70
0-40	1697.00	N.A.	95.40
0-60	1771.65	N.A.	99.60
0-80	1778.56	N.A.	100.00
0-90	1779.02	N.A.	100.00
10-90	1540.55	N.A.	86.60
20-40	867.13	N.A.	48.70
20-50	932.79	N.A.	52.40
40-70	79.43	N.A.	4.50
60-80	6.91	N.A.	0.40
70-80	2.13	N.A.	0.10
80-90	0.46	N.A.	0.00
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	1779.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	238.47
10-20	591.40
20-30	571.04
30-40	296.09
40-50	65.66
50-60	8.99
60-70	4.78
70-80	2.13
80-90	0.46
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	206	206	206	206	201	201	201	201	192	192	192	184	184	184	177	177	177	173
1	197	192	188	185	193	189	185	182	182	179	176	175	173	171	169	168	166	163
2	188	180	174	168	184	177	171	166	172	167	163	167	163	159	162	159	156	153
3	179	169	161	155	176	167	159	153	162	156	151	158	153	149	154	150	146	144
4	171	159	150	143	168	157	149	142	153	146	141	150	144	139	147	142	137	135
5	163	150	140	133	161	148	139	133	145	138	132	142	136	131	140	134	129	127
6	156	141	132	125	153	140	131	124	138	130	124	135	128	123	133	127	122	120
7	149	134	124	117	147	133	124	117	131	122	116	129	121	116	127	120	115	113
8	142	127	117	111	140	126	117	110	124	116	110	122	115	109	121	114	109	107
9	136	121	111	105	134	120	111	104	118	110	104	117	109	104	115	108	103	101
10	130	115	105	99	129	114	105	99	113	104	99	111	104	98	110	103	98	96

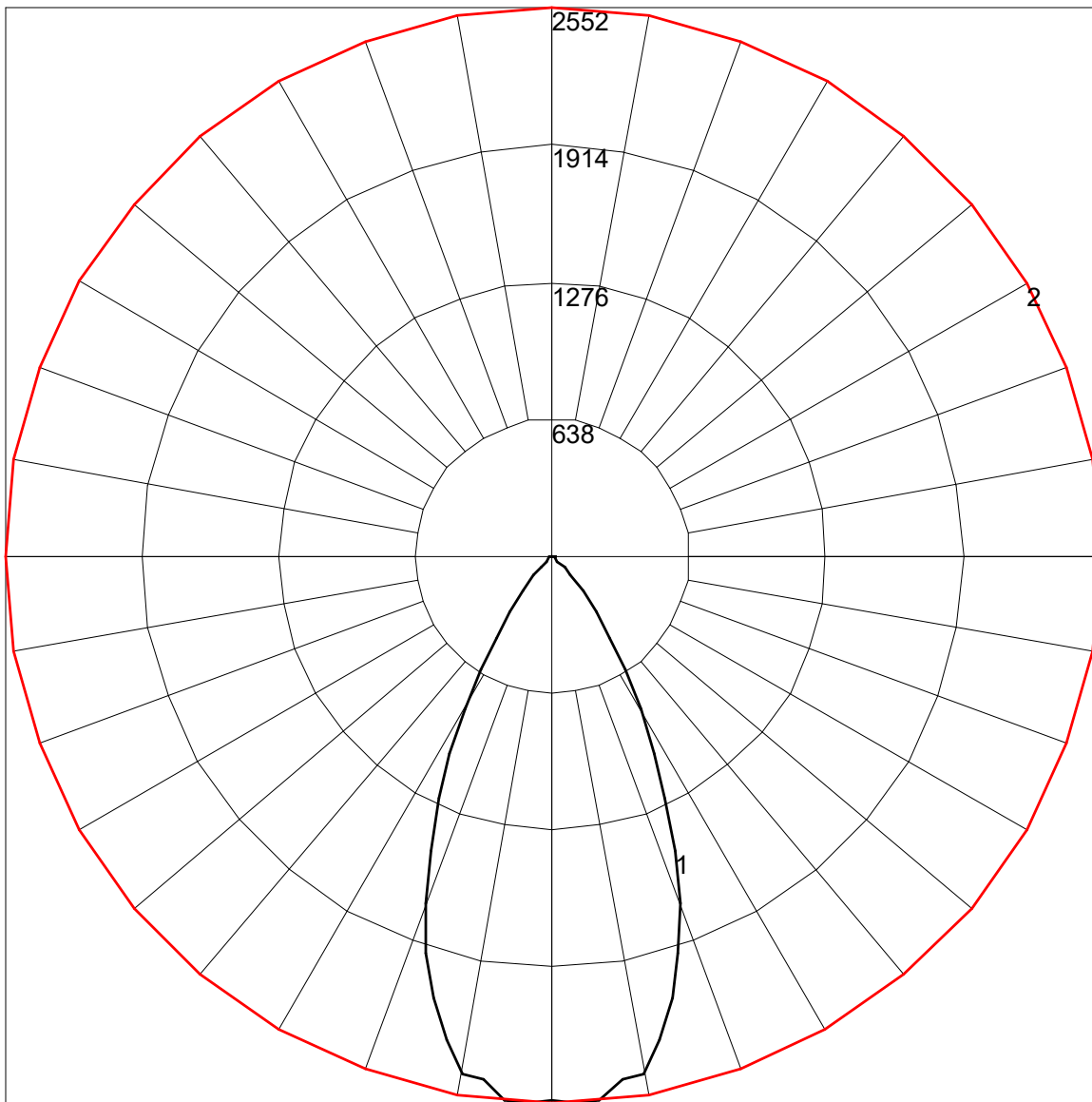
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UGR TABLE - CORRECTED

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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4H	2H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8H	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	12H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
12H	4H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	6H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	8H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Maximum UGR = 0.1

POLAR GRAPH



Maximum Candela = 2552.493 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)