



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L18-8TW-OW-CS-DIM-UNV 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 18-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L18/8TW-OW-CS-DIM-UNV 4000k

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

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

[MORE] 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

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

[ABSOLUTELUMENS] 10287

[ CONVERT] Photometric web converted from original test data

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### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1796
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	23.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	0.96
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	4151	4151	4151
55	690	690	690
65	474	474	474
75	368	368	368
85	273	273	273

CANDELA TABULATION

	<u>0</u>
0.0	1756.021
2.5	1758.291
5.0	1767.021
7.5	1733.322
10.0	1699.623
12.5	1677.972
15.0	1610.923
17.5	1551.033
20.0	1502.492
22.5	1453.602
25.0	1393.363
27.5	1287.551
30.0	1099.674
32.5	894.162
35.0	688.300
37.5	495.185
40.0	324.943
42.5	197.655
45.0	107.558
47.5	47.144
50.0	23.223
52.5	18.159
55.0	14.493
57.5	12.048
60.0	10.127
62.5	8.556
65.0	7.333
67.5	6.111
70.0	5.064
72.5	4.190
75.0	3.492
77.5	2.794
80.0	2.095
82.5	1.397
85.0	0.873
87.5	0.349
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	619.20	N.A.	34.50
0-30	1243.13	N.A.	69.20
0-40	1671.69	N.A.	93.10
0-60	1784.07	N.A.	99.30
0-80	1795.09	N.A.	99.90
0-90	1796.09	N.A.	100.00
10-90	1630.17	N.A.	90.80
20-40	1052.49	N.A.	58.60
20-50	1151.21	N.A.	64.10
40-70	119.70	N.A.	6.70
60-80	11.02	N.A.	0.60
70-80	3.71	N.A.	0.20
80-90	1.00	N.A.	0.10
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	1796.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	165.92
10-20	453.28
20-30	623.93
30-40	428.56
40-50	98.73
50-60	13.66
60-70	7.31
70-80	3.71
80-90	1.00
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	196	191	187	183	192	188	184	180	181	177	175	174	172	169	168	166	165	161
2	186	178	171	165	182	175	168	163	169	164	159	164	160	156	159	156	153	150
3	177	165	157	150	173	163	155	148	158	152	146	154	149	144	150	146	142	139
4	168	154	145	137	164	152	143	136	149	141	135	145	138	133	142	136	132	129
5	159	144	134	126	156	142	133	126	139	131	125	136	129	123	134	127	122	120
6	151	135	124	117	148	134	124	116	131	122	116	128	121	115	126	119	114	111
7	143	127	116	108	141	125	115	108	123	114	108	121	113	107	119	112	106	104
8	136	119	108	101	134	118	108	101	116	107	100	114	106	100	112	105	100	97
9	129	112	102	94	127	111	101	94	109	100	94	108	100	94	106	99	93	91
10	123	106	95	89	121	105	95	88	103	94	88	102	94	88	101	93	88	85

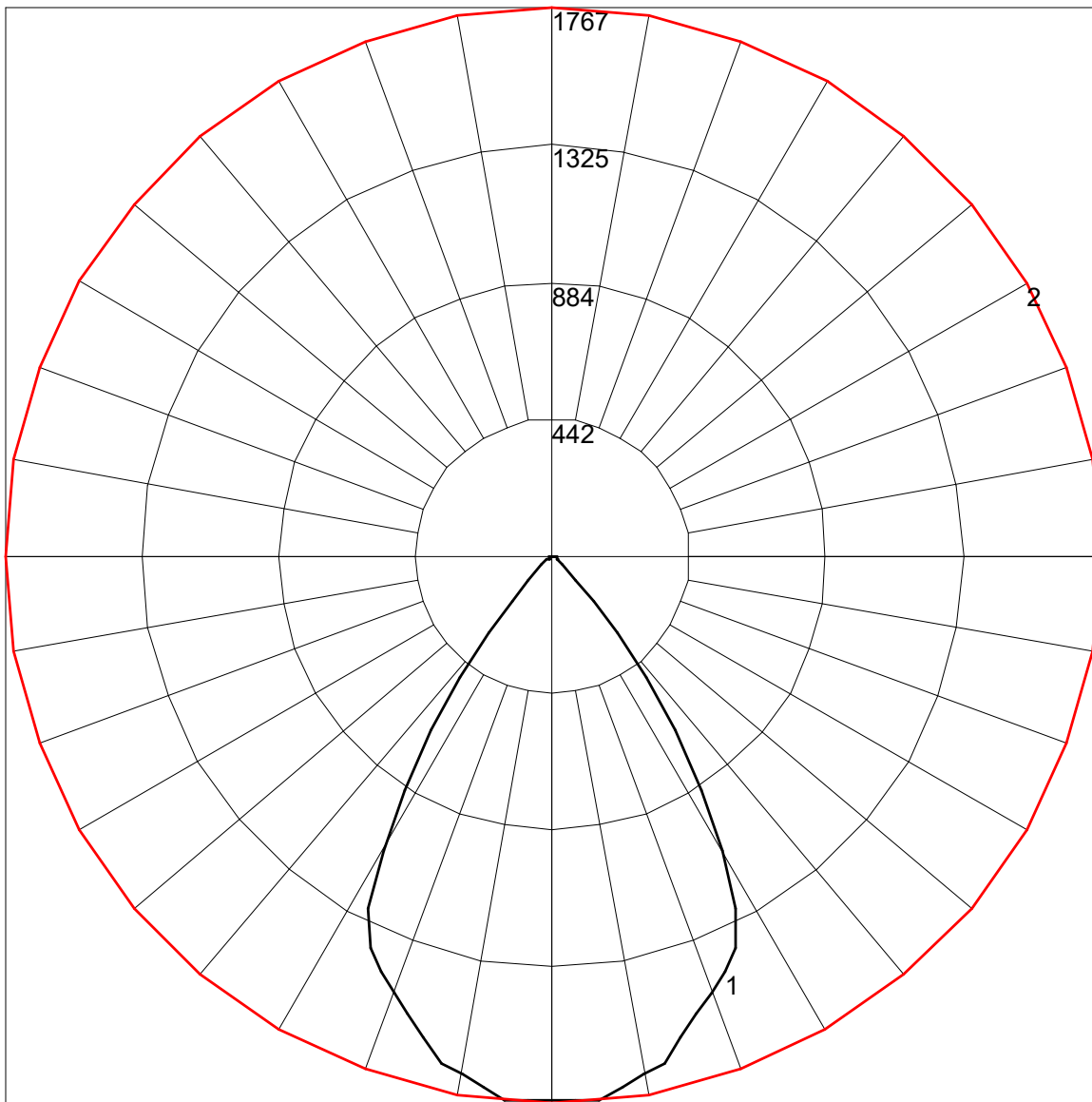
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**UGR TABLE - CORRECTED**

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	0.3	0.1	0.1	0.1	0.1	0.3
	6H	0.1	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.2	0.6
	8H	0.1	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.2	0.6
	12H	0.1	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.2	0.6
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	0.3	0.1	0.1	0.1	0.1	0.3
	4H	0.1	0.1	0.1	0.4	0.8	0.1	0.1	0.1	0.4	0.8
	6H	0.1	0.3	0.2	0.7	1.2	0.1	0.3	0.2	0.7	1.2
	8H	0.1	0.3	0.4	0.8	1.3	0.1	0.3	0.4	0.8	1.3
	12H	0.1	0.3	0.4	0.8	1.3	0.1	0.3	0.4	0.8	1.3
8H	4H	0.1	0.1	0.1	0.4	0.9	0.1	0.1	0.1	0.4	0.9
	6H	0.1	0.4	0.5	0.9	1.4	0.1	0.4	0.5	0.9	1.4
	8H	0.2	0.5	0.7	1.0	1.5	0.2	0.5	0.7	1.0	1.5
	12H	0.3	0.6	0.8	1.1	1.7	0.3	0.6	0.8	1.1	1.7
12H	4H	0.1	0.1	0.1	0.3	0.8	0.1	0.1	0.1	0.3	0.8
	6H	0.1	0.3	0.6	0.8	1.4	0.1	0.3	0.6	0.8	1.4
	8H	0.2	0.5	0.7	1.0	1.6	0.2	0.5	0.7	1.0	1.6

Maximum UGR = 1.7

POLAR GRAPH



Maximum Candela = 1767.021 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)