



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L18-8TW-ON-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-ON-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	1630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	23.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.68
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	2715	2715	2715
55	244	244	244
65	154	154	154
75	97	97	97
85	57	57	57

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CANDELA TABULATION

	<u>0</u>
0.0	2897.655
2.5	2928.613
5.0	2858.269
7.5	2751.289
10.0	2512.779
12.5	2251.187
15.0	1975.491
17.5	1698.145
20.0	1403.763
22.5	1174.047
25.0	1009.361
27.5	874.719
30.0	737.878
32.5	596.641
35.0	456.869
37.5	323.509
40.0	207.735
42.5	125.849
45.0	70.344
47.5	30.226
50.0	10.075
52.5	6.228
55.0	5.129
57.5	4.397
60.0	3.664
62.5	2.931
65.0	2.382
67.5	1.832
70.0	1.466
72.5	1.099
75.0	0.916
77.5	0.733
80.0	0.549
82.5	0.366
85.0	0.183
87.5	0.183
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	805.43	N.A.	49.40
0-30	1274.55	N.A.	78.20
0-40	1558.5	N.A.	95.60
0-60	1626.38	N.A.	99.80
0-80	1629.77	N.A.	100.00
0-90	1630.04	N.A.	100.00
10-90	1367.27	N.A.	83.90
20-40	753.07	N.A.	46.20
20-50	815.92	N.A.	50.10
40-70	70.28	N.A.	4.30
60-80	3.39	N.A.	0.20
70-80	0.99	N.A.	0.10
80-90	0.27	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	1630.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	262.77
10-20	542.66
20-30	469.13
30-40	283.94
40-50	62.85
50-60	5.03
60-70	2.40
70-80	0.99
80-90	0.27
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

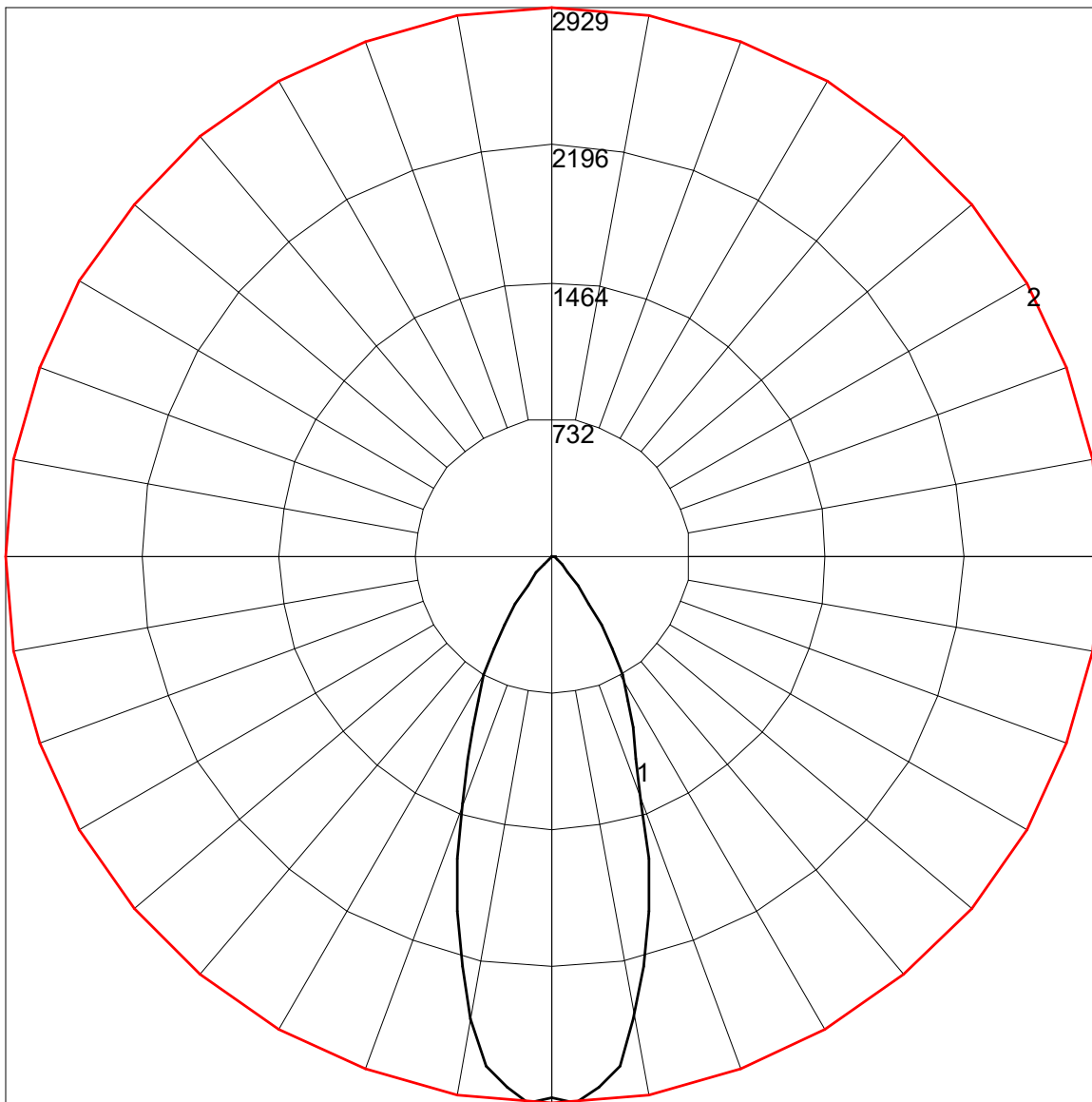
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	193	189	185	193	189	185	182	182	179	177	176	173	171	170	168	166	163
2	188	181	174	169	185	178	172	167	172	167	163	167	163	160	162	159	157	154
3	180	170	162	156	177	167	160	154	163	157	152	159	154	150	155	151	147	145
4	172	160	151	145	169	158	150	144	154	147	142	151	145	140	148	143	139	136
5	164	151	142	135	162	149	141	134	146	139	133	144	137	132	141	135	131	129
6	157	143	133	127	155	142	133	126	139	131	125	137	130	125	135	128	124	121
7	150	136	126	119	148	134	125	119	132	124	118	130	123	118	128	122	117	115
8	144	129	119	113	142	128	119	113	126	118	112	124	117	112	123	116	111	109
9	138	123	113	107	136	122	113	107	120	112	106	119	111	106	117	111	106	104
10	132	117	108	102	131	116	107	101	115	107	101	114	106	101	112	106	101	99

POLAR GRAPH



Maximum Candela = 2928.613 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.)