



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L18-9DW-OW-CS-DIM-UNV 3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 18-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L18/9DW-OW-CS-DIM-UNV 3000k

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

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

[ 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	1847
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	37
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	4269	4269	4269
55	709	709	709
65	487	487	487
75	379	379	379
85	281	281	281

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CANDELA TABULATION

	<u>0</u>
0.0	1805.886
2.5	1808.221
5.0	1817.199
7.5	1782.543
10.0	1747.886
12.5	1725.620
15.0	1656.667
17.5	1595.076
20.0	1545.158
22.5	1494.879
25.0	1432.929
27.5	1324.113
30.0	1130.901
32.5	919.553
35.0	707.845
37.5	509.246
40.0	334.171
42.5	203.268
45.0	110.612
47.5	48.483
50.0	23.882
52.5	18.675
55.0	14.904
57.5	12.390
60.0	10.415
62.5	8.798
65.0	7.542
67.5	6.285
70.0	5.207
72.5	4.309
75.0	3.591
77.5	2.873
80.0	2.155
82.5	1.436
85.0	0.898
87.5	0.359
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	636.79	N.A.	34.50
0-30	1278.43	N.A.	69.20
0-40	1719.16	N.A.	93.10
0-60	1834.74	N.A.	99.30
0-80	1846.07	N.A.	99.90
0-90	1847.09	N.A.	100.00
10-90	1676.46	N.A.	90.80
20-40	1082.37	N.A.	58.60
20-50	1183.91	N.A.	64.10
40-70	123.10	N.A.	6.70
60-80	11.33	N.A.	0.60
70-80	3.81	N.A.	0.20
80-90	1.03	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	1847.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	170.64
10-20	466.15
20-30	641.64
30-40	440.73
40-50	101.53
50-60	14.04
60-70	7.52
70-80	3.81
80-90	1.03
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	37	37	37	37	36	36	36	36	34	34	34	33	33	33	31	31	31	31
1	35	34	33	33	34	33	33	32	32	32	31	31	31	30	30	30	29	29
2	33	32	30	29	32	31	30	29	30	29	28	29	28	28	28	28	27	27
3	31	29	28	27	31	29	28	26	28	27	26	27	26	26	27	26	25	25
4	30	27	26	24	29	27	25	24	26	25	24	26	25	24	25	24	23	23
5	28	26	24	22	28	25	24	22	25	23	22	24	23	22	24	23	22	21
6	27	24	22	21	26	24	22	21	23	22	21	23	21	20	22	21	20	20
7	25	23	21	19	25	22	21	19	22	20	19	22	20	19	21	20	19	18
8	24	21	19	18	24	21	19	18	21	19	18	20	19	18	20	19	18	17
9	23	20	18	17	23	20	18	17	19	18	17	19	18	17	19	18	17	16
10	22	19	17	16	22	19	17	16	18	17	16	18	17	16	18	17	16	15

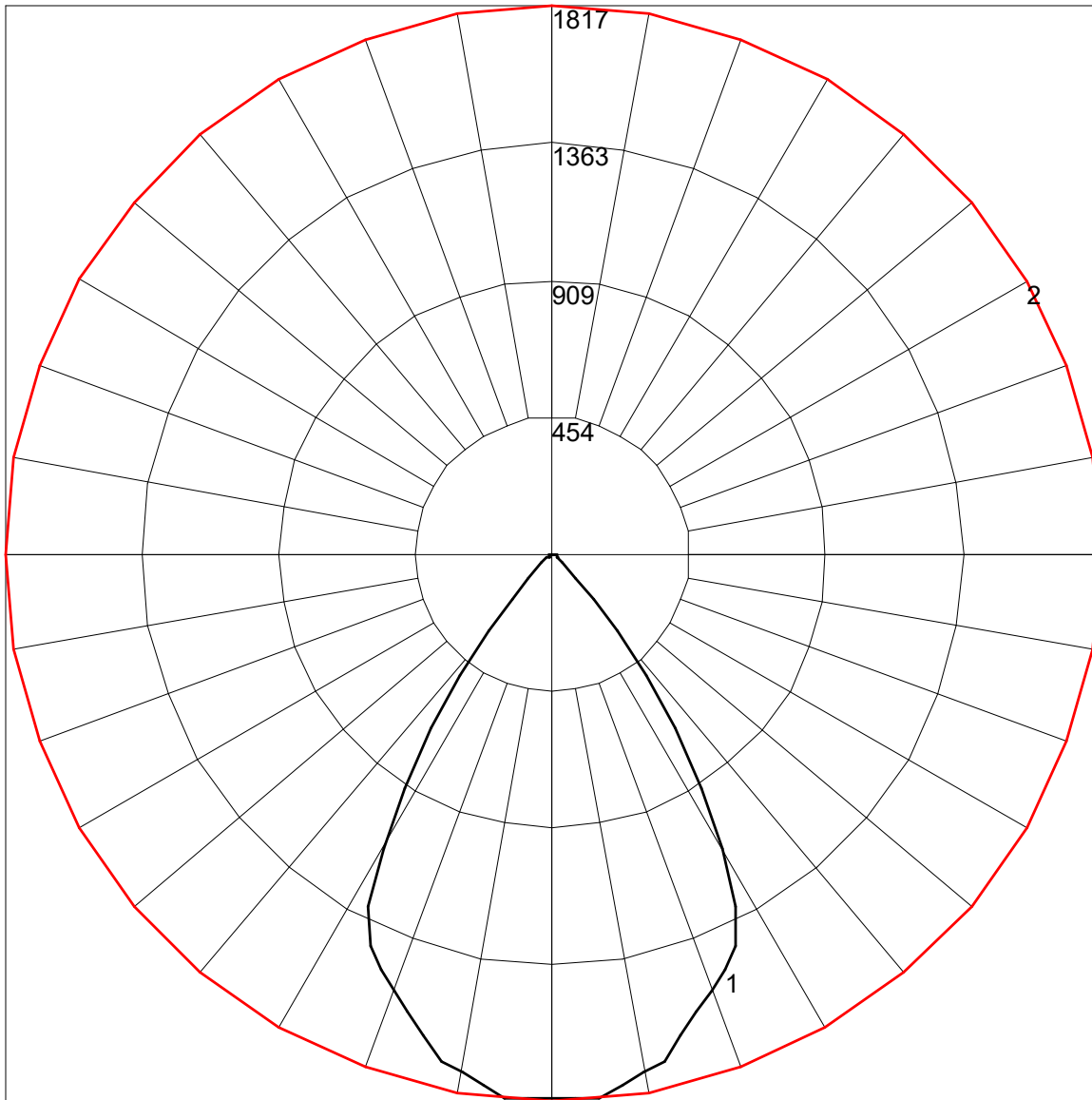
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**UGR TABLE - CORRECTED**

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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.4	6.2	6.2	6.2	6.2	6.4
	6H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
	8H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
	12H	6.2	6.2	6.2	6.3	6.7	6.2	6.2	6.2	6.3	6.7
4H	2H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.4	6.2	6.2	6.2	6.2	6.4
	4H	6.2	6.2	6.2	6.5	6.9	6.2	6.2	6.2	6.5	6.9
	6H	6.2	6.4	6.3	6.8	7.3	6.2	6.4	6.3	6.8	7.3
	8H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	7.4
	12H	6.2	6.4	6.5	6.9	7.4	6.2	6.4	6.5	6.9	7.4
8H	4H	6.2	6.2	6.2	6.5	7.0	6.2	6.2	6.2	6.5	7.0
	6H	6.2	6.5	6.6	7.0	7.5	6.2	6.5	6.6	7.0	7.5
	8H	6.3	6.6	6.8	7.1	7.6	6.3	6.6	6.8	7.1	7.6
	12H	6.4	6.7	6.9	7.2	7.8	6.4	6.7	6.9	7.2	7.8
12H	4H	6.2	6.2	6.2	6.4	6.9	6.2	6.2	6.2	6.4	6.9
	6H	6.2	6.4	6.7	6.9	7.5	6.2	6.4	6.7	6.9	7.5
	8H	6.3	6.6	6.8	7.1	7.7	6.3	6.6	6.8	7.1	7.7

Maximum UGR = 7.8

POLAR GRAPH



Maximum Candela = 1817.199 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.)