



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L16-9TC-OW-CS-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 18-JUN-2021

[MANUFACTURER] H.E. WILLIAMS

[LUMEN CATEGORY] 8DR-TL-L16/9TC-OW-CS-DIM-UNV 4000k

[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

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

[ABSOLUTE LUMENS] 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	1672
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	45.9
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	3864	3864	3864
55	642	642	642
65	441	441	441
75	343	343	343
85	255	255	255

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CANDELA TABULATION

	<u>0</u>
0.0	1634.781
2.5	1636.894
5.0	1645.022
7.5	1613.650
10.0	1582.277
12.5	1562.120
15.0	1499.701
17.5	1443.945
20.0	1398.756
22.5	1353.242
25.0	1297.161
27.5	1198.655
30.0	1023.750
32.5	832.427
35.0	640.778
37.5	460.996
40.0	302.508
42.5	184.008
45.0	100.132
47.5	43.889
50.0	21.619
52.5	16.905
55.0	13.492
57.5	11.216
60.0	9.428
62.5	7.965
65.0	6.827
67.5	5.689
70.0	4.714
72.5	3.901
75.0	3.251
77.5	2.601
80.0	1.951
82.5	1.300
85.0	0.813
87.5	0.325
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	576.45	N.A.	34.50
0-30	1157.3	N.A.	69.20
0-40	1556.27	N.A.	93.10
0-60	1660.9	N.A.	99.30
0-80	1671.15	N.A.	99.90
0-90	1672.08	N.A.	100.00
10-90	1517.61	N.A.	90.80
20-40	979.82	N.A.	58.60
20-50	1071.73	N.A.	64.10
40-70	111.43	N.A.	6.70
60-80	10.26	N.A.	0.60
70-80	3.45	N.A.	0.20
80-90	0.93	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	1672.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.47
10-20	421.98
20-30	580.85
30-40	398.97
40-50	91.91
50-60	12.71
60-70	6.81
70-80	3.45
80-90	0.93
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	184	184	184	184	179	179	179	179	171	171	171	164	164	164	157	157	157	154
1	175	171	167	163	171	167	164	161	161	158	156	155	153	151	150	148	147	144
2	166	158	152	147	163	156	150	145	151	146	142	146	142	139	142	139	136	133
3	158	147	140	133	154	145	138	132	141	135	130	138	132	128	134	130	126	124
4	149	138	129	122	147	136	128	121	132	126	120	129	123	119	126	121	117	115
5	142	128	119	113	139	127	118	112	124	117	111	122	115	110	119	114	109	107
6	134	120	111	104	132	119	110	104	117	109	103	114	108	102	112	106	102	99
7	127	113	103	97	125	112	103	96	110	102	96	108	101	95	106	100	95	93
8	121	106	97	90	119	105	96	90	103	95	90	102	94	89	100	94	89	87
9	115	100	90	84	113	99	90	84	98	89	84	96	89	83	95	88	83	81
10	109	94	85	79	108	93	85	79	92	84	79	91	84	78	90	83	78	76

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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

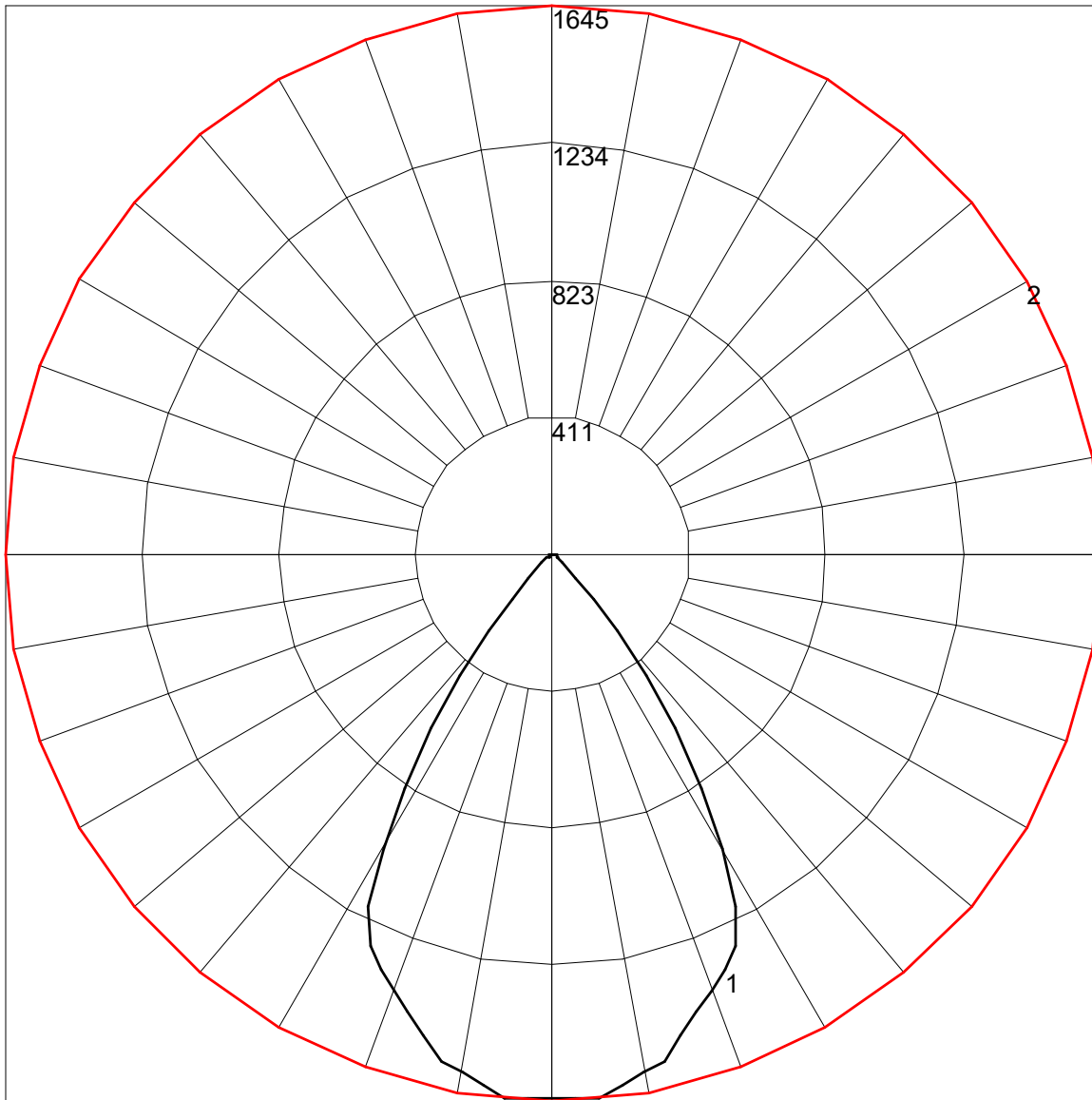
X=2H	Y=2H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	3H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	4H	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.5
	6H	0.3	0.3	0.3	0.4	0.8	0.3	0.3	0.3	0.8
	8H	0.3	0.3	0.3	0.4	0.8	0.3	0.3	0.3	0.8
	12H	0.3	0.3	0.3	0.4	0.8	0.3	0.3	0.3	0.8

UGR Viewed Endwise

4H	2H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	3H	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.5
	4H	0.3	0.3	0.3	0.6	1.0	0.3	0.3	0.3	1.0
	6H	0.3	0.5	0.4	0.9	1.4	0.3	0.5	0.4	1.4
	8H	0.3	0.5	0.6	1.0	1.5	0.3	0.5	0.6	1.5
	12H	0.3	0.5	0.6	1.0	1.5	0.3	0.5	0.6	1.5
8H	4H	0.3	0.3	0.3	0.6	1.1	0.3	0.3	0.3	1.1
	6H	0.3	0.6	0.7	1.1	1.6	0.3	0.6	0.7	1.6
	8H	0.4	0.7	0.9	1.2	1.7	0.4	0.7	0.9	1.7
	12H	0.5	0.8	1.0	1.3	1.9	0.5	0.8	1.0	1.9
12H	4H	0.3	0.3	0.3	0.5	1.0	0.3	0.3	0.3	1.0
	6H	0.3	0.5	0.8	1.0	1.6	0.3	0.5	0.8	1.6
	8H	0.4	0.7	0.9	1.2	1.8	0.4	0.7	0.9	1.8

Maximum UGR = 1.9

POLAR GRAPH



Maximum Candela = 1645.022 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.)