



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L16-9TC-OM-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-OM-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

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1611
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	35
Total Luminaire Watts	45.9
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	2539	2539	2539
55	406	406	406
65	280	280	280
75	187	187	187
85	101	101	101

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CANDELA TABULATION

	<u>0</u>
0.0	2299.865
2.5	2311.448
5.0	2306.783
7.5	2234.550
10.0	2225.380
12.5	2091.532
15.0	1939.184
17.5	1765.439
20.0	1564.346
22.5	1349.096
25.0	1125.318
27.5	936.452
30.0	744.046
32.5	564.992
35.0	419.883
37.5	296.492
40.0	192.889
42.5	116.956
45.0	65.798
47.5	30.405
50.0	14.318
52.5	10.618
55.0	8.526
57.5	7.239
60.0	6.113
62.5	5.148
65.0	4.343
67.5	3.539
70.0	2.896
72.5	2.413
75.0	1.770
77.5	1.287
80.0	0.805
82.5	0.644
85.0	0.322
87.5	0.161
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	751.50	N.A.	46.60
0-30	1268.61	N.A.	78.70
0-40	1536.74	N.A.	95.40
0-60	1604.34	N.A.	99.60
0-80	1610.6	N.A.	100.00
0-90	1611.02	N.A.	100.00
10-90	1395.07	N.A.	86.60
20-40	785.24	N.A.	48.70
20-50	844.70	N.A.	52.40
40-70	71.93	N.A.	4.50
60-80	6.26	N.A.	0.40
70-80	1.93	N.A.	0.10
80-90	0.42	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	1611.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	215.95
10-20	535.55
20-30	517.11
30-40	268.13
40-50	59.46
50-60	8.14
60-70	4.33
70-80	1.93
80-90	0.42
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	179	179	179	179	174	174	174	174	167	167	167	160	160	160	153	153	153	150
1	171	167	163	160	167	164	160	158	158	155	153	152	150	148	147	145	144	141
2	163	156	150	146	160	154	148	144	149	145	141	144	141	138	140	137	135	133
3	155	146	139	134	153	144	138	133	141	135	131	137	132	129	134	130	127	125
4	148	138	130	124	146	136	129	123	133	127	122	130	125	121	127	123	119	117
5	142	130	122	116	139	128	121	115	126	119	114	123	118	113	121	116	112	110
6	135	123	114	108	133	121	114	108	119	112	107	117	111	106	115	110	106	104
7	129	116	108	102	127	115	107	101	113	106	101	111	105	100	110	104	100	98
8	123	110	102	96	122	109	101	96	108	100	95	106	100	95	105	99	95	93
9	118	104	96	91	116	104	96	90	102	95	90	101	95	90	100	94	90	88
10	113	99	91	86	112	99	91	86	98	90	86	96	90	85	95	89	85	83

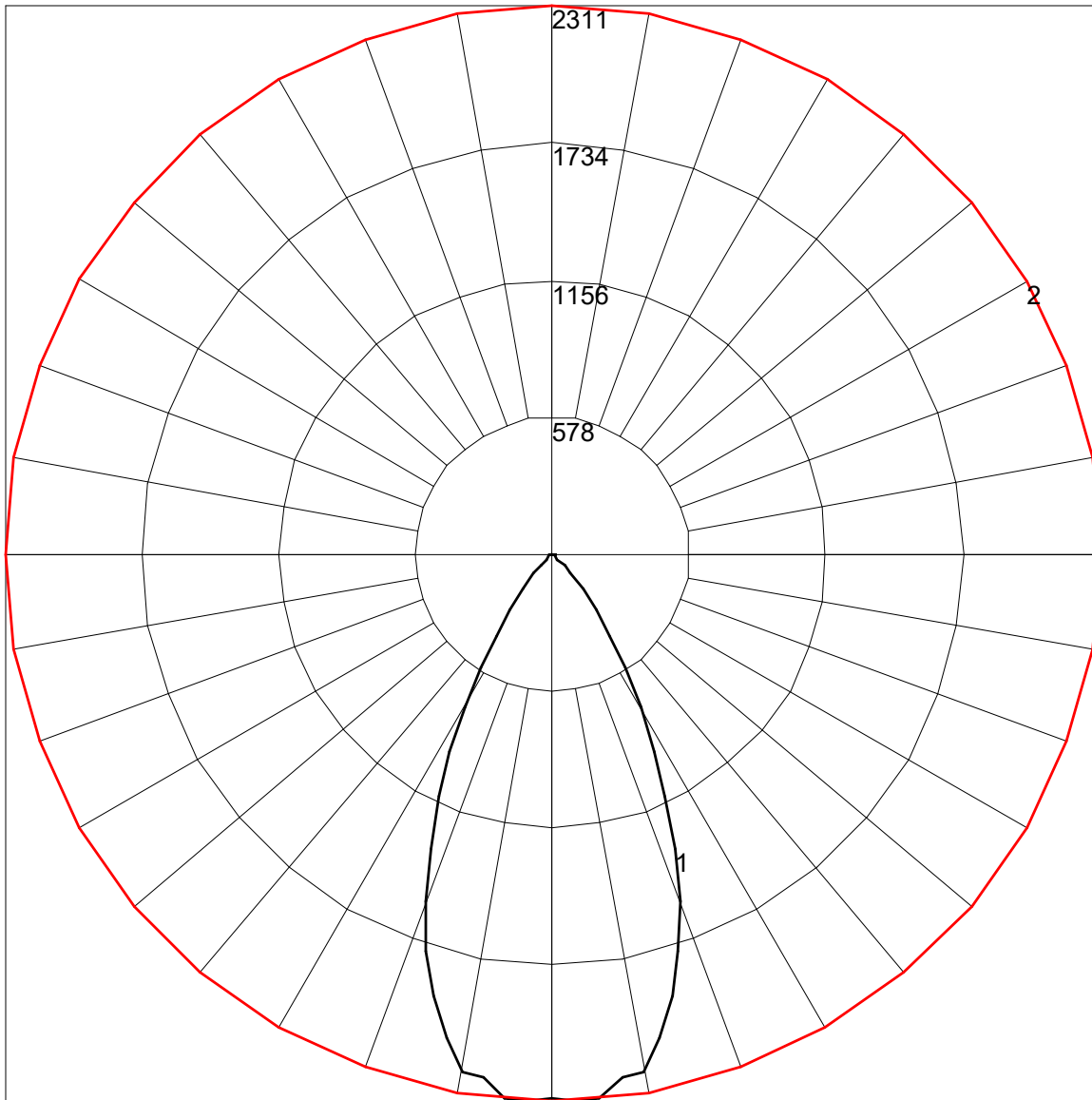
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UGR TABLE - CORRECTED

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	0.3	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	0.3
	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	12H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
4H	2H	0.3	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	0.3
	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	12H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
8H	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	12H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
12H	4H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	6H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	8H	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Maximum UGR = 0.3

POLAR GRAPH



Maximum Candela = 2311.448 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.)