



IES INDOOR REPORT

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

[LUMINAIRE] 8DR-TL-L16/9TC-ON-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

[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	1476
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	32
Total Luminaire Watts	45.9
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L16-9TC-ON-CS-DIM-UNV 4000K_.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2458	2458	2458
55	221	221	221
65	139	139	139
75	87	87	87
85	52	52	52

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CANDELA TABULATION

	<u>0</u>
0.0	2623.889
2.5	2651.922
5.0	2588.224
7.5	2491.351
10.0	2275.375
12.5	2038.498
15.0	1788.849
17.5	1537.707
20.0	1271.138
22.5	1063.124
25.0	913.998
27.5	792.077
30.0	668.164
32.5	540.271
35.0	413.704
37.5	292.944
40.0	188.108
42.5	113.959
45.0	63.698
47.5	27.370
50.0	9.123
52.5	5.640
55.0	4.645
57.5	3.981
60.0	3.317
62.5	2.654
65.0	2.157
67.5	1.659
70.0	1.327
72.5	0.995
75.0	0.829
77.5	0.663
80.0	0.498
82.5	0.332
85.0	0.166
87.5	0.166
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	729.33	N.A.	49.40
0-30	1154.13	N.A.	78.20
0-40	1411.25	N.A.	95.60
0-60	1472.72	N.A.	99.80
0-80	1475.79	N.A.	100.00
0-90	1476.03	N.A.	100.00
10-90	1238.09	N.A.	83.90
20-40	681.92	N.A.	46.20
20-50	738.84	N.A.	50.10
40-70	63.64	N.A.	4.30
60-80	3.07	N.A.	0.20
70-80	0.90	N.A.	0.10
80-90	0.25	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	1476.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	237.94
10-20	491.39
20-30	424.80
30-40	257.12
40-50	56.92
50-60	4.55
60-70	2.17
70-80	0.90
80-90	0.25
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

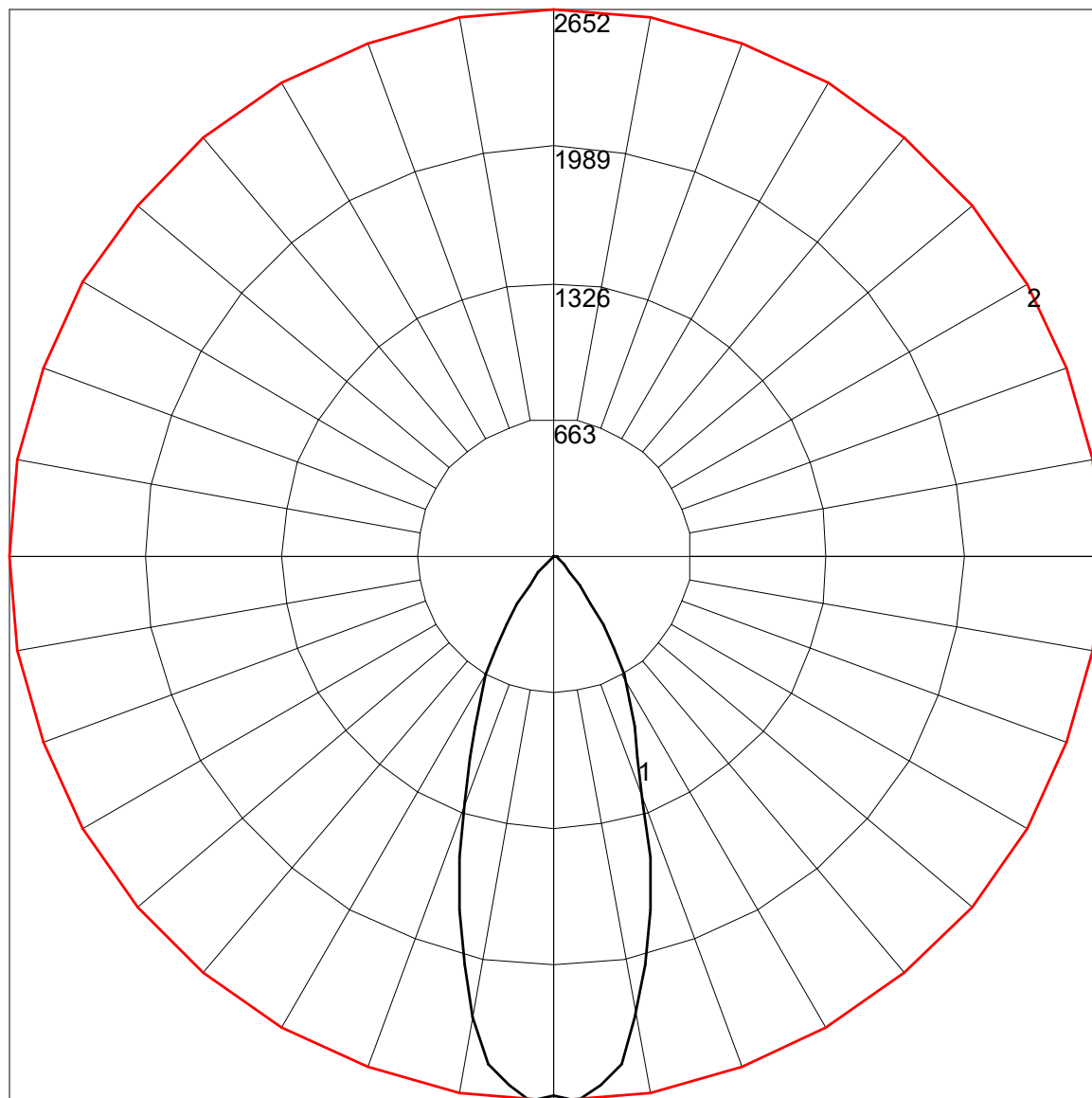
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	164	161	167	164	161	158	158	155	153	152	150	149	147	146	144	142
2	163	157	151	146	160	154	149	145	149	145	142	145	141	139	141	138	136	133
3	156	147	140	135	153	145	139	134	141	136	132	138	133	130	134	131	128	125
4	149	139	131	125	146	137	130	125	134	128	123	131	126	122	128	124	120	118
5	142	131	123	117	140	130	122	117	127	120	115	125	119	114	122	117	114	111
6	136	124	116	110	134	123	115	109	121	114	109	119	113	108	117	111	107	105
7	130	117	109	103	128	116	109	103	115	108	103	113	107	102	111	106	102	100
8	125	112	103	98	123	111	103	98	109	102	97	108	101	97	106	101	96	94
9	119	106	98	93	118	106	98	93	104	97	92	103	96	92	102	96	92	90
10	115	101	93	88	113	101	93	88	100	93	88	98	92	87	97	91	87	85

POLAR GRAPH



Maximum Candela = 2651.922 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.)