



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L35-8TW-OW-CS-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 18-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L35/8TW-OW-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

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3481
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	47.3
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	8045	8045	8045
55	1336	1336	1336
65	918	918	918
75	714	714	714
85	530	530	530

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CANDELA TABULATION

	<u>0</u>
0.0	3403.514
2.5	3407.913
5.0	3424.834
7.5	3359.518
10.0	3294.203
12.5	3252.238
15.0	3122.284
17.5	3006.205
20.0	2912.124
22.5	2817.365
25.0	2700.610
27.5	2495.526
30.0	2131.383
32.5	1733.061
35.0	1334.061
37.5	959.766
40.0	629.804
42.5	383.094
45.0	208.468
47.5	91.374
50.0	45.010
52.5	35.196
55.0	28.089
57.5	23.351
60.0	19.629
62.5	16.582
65.0	14.214
67.5	11.845
70.0	9.814
72.5	8.122
75.0	6.769
77.5	5.415
80.0	4.061
82.5	2.707
85.0	1.692
87.5	0.677
90.0	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8DR-L35-8TW-OW-CS-DIM-UNV 4000K_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1200.14	N.A.	34.50
0-30	2409.43	N.A.	69.20
0-40	3240.06	N.A.	93.10
0-60	3457.88	N.A.	99.30
0-80	3479.24	N.A.	99.90
0-90	3481.17	N.A.	100.00
10-90	3159.58	N.A.	90.80
20-40	2039.93	N.A.	58.60
20-50	2231.28	N.A.	64.10
40-70	231.99	N.A.	6.70
60-80	21.36	N.A.	0.60
70-80	7.18	N.A.	0.20
80-90	1.93	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	3481.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	321.59
10-20	878.54
20-30	1209.29
30-40	830.64
40-50	191.35
50-60	26.47
60-70	14.17
70-80	7.18
80-90	1.93
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	399	399	399	399	390	390	390	390	373	373	373	357	357	357	342	342	342	335
1	380	371	362	355	372	364	356	349	350	344	338	338	333	328	326	322	319	313
2	361	345	331	319	354	339	326	316	328	318	309	318	309	302	309	302	296	290
3	343	321	304	290	336	316	300	288	307	294	283	299	288	279	291	282	274	269
4	325	299	280	266	319	295	278	264	288	273	261	281	268	258	275	264	255	250
5	308	279	259	245	302	276	258	244	270	254	241	264	250	239	259	247	237	232
6	292	261	241	226	287	259	240	226	254	237	224	249	234	222	244	231	221	216
7	277	245	225	210	272	243	223	210	239	221	209	235	219	207	231	217	206	202
8	263	230	210	196	259	228	209	195	225	207	195	221	205	194	218	204	193	188
9	250	217	197	183	246	215	196	183	212	194	182	209	193	181	206	192	181	176
10	238	205	185	172	234	203	184	171	200	183	171	198	182	170	195	180	170	165

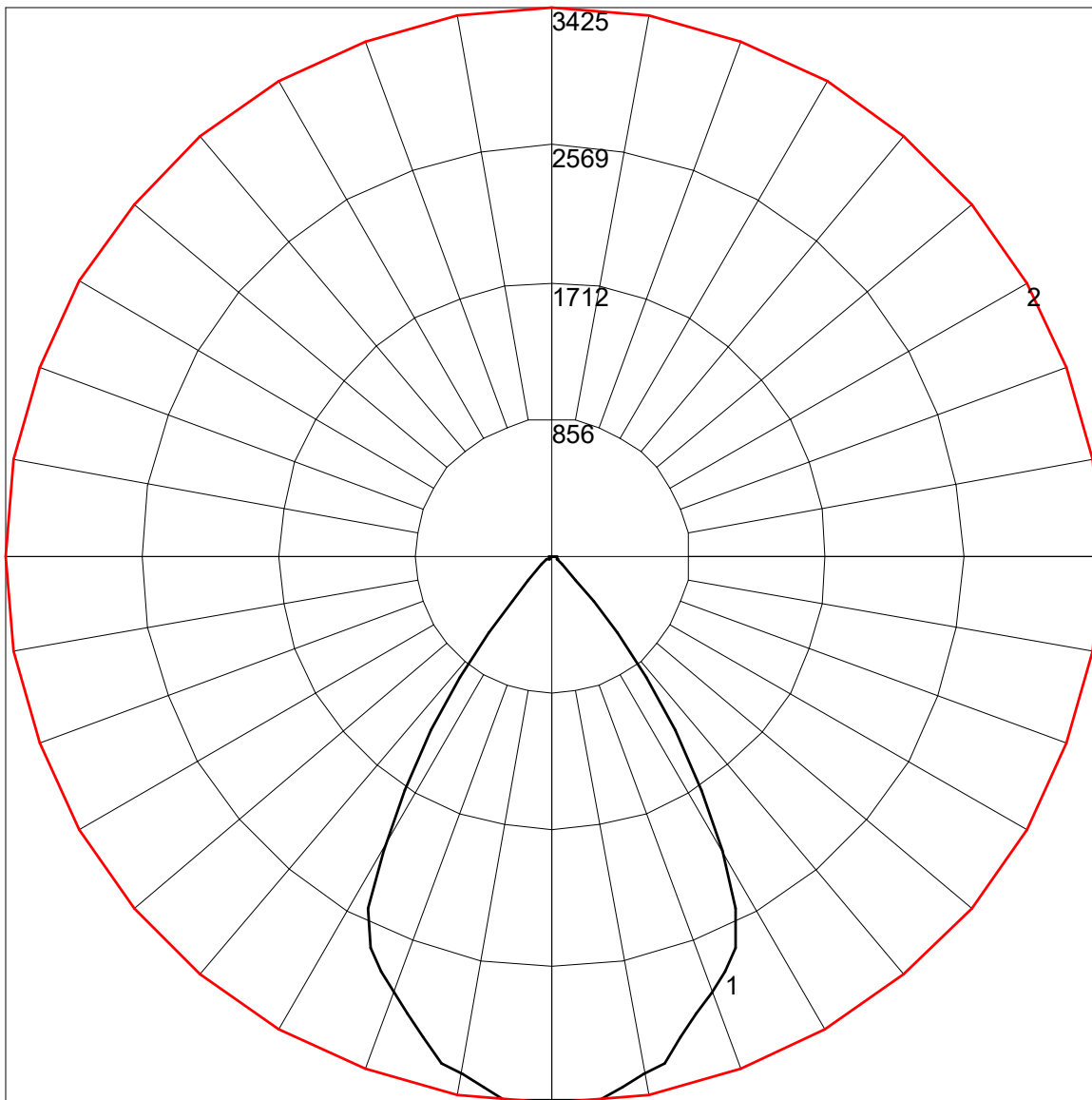
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UGR TABLE - CORRECTED

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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	4H	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.3
	6H	0.1	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.2	0.6
	8H	0.1	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.2	0.6
	12H	0.1	0.1	0.1	0.2	0.6	0.1	0.1	0.1	0.2	0.6
4H	2H	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	3H	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.3
	4H	0.1	0.1	0.1	0.4	0.8	0.1	0.1	0.1	0.4	0.8
	6H	0.1	0.3	0.2	0.7	1.2	0.1	0.3	0.2	0.7	1.2
	8H	0.1	0.3	0.4	0.8	1.3	0.1	0.3	0.4	0.8	1.3
	12H	0.1	0.3	0.4	0.8	1.3	0.1	0.3	0.4	0.8	1.3
8H	4H	0.1	0.1	0.1	0.4	0.9	0.1	0.1	0.1	0.4	0.9
	6H	0.1	0.4	0.5	0.9	1.4	0.1	0.4	0.5	0.9	1.4
	8H	0.2	0.5	0.7	1.0	1.5	0.2	0.5	0.7	1.0	1.5
	12H	0.3	0.6	0.8	1.1	1.7	0.3	0.6	0.8	1.1	1.7
12H	4H	0.1	0.1	0.1	0.3	0.8	0.1	0.1	0.1	0.3	0.8
	6H	0.1	0.3	0.6	0.8	1.4	0.1	0.3	0.6	0.8	1.4
	8H	0.2	0.5	0.7	1.0	1.6	0.2	0.5	0.7	1.0	1.6

Maximum UGR = 1.7

POLAR GRAPH



Maximum Candela = 3424.834 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.)