



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P11-8TW-POE-OM-CS 3000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 2-JUL-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P11/8TW-PoE-OM-CS 3000k

[LUMINAIRE] 8.5 INCH RECESSED LED TUNABLE WHITE DOWNLIGHT PoE FIXTURE WITH SEMI-SPECULAR TRIM

[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	943
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	11.9
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	1486	1486	1486
55	237	237	237
65	164	164	164
75	109	109	109
85	59	59	59

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CANDELA TABULATION

	<u>0</u>
0.0	1346.227
2.5	1353.007
5.0	1350.277
7.5	1307.995
10.0	1302.627
12.5	1224.280
15.0	1135.102
17.5	1033.401
20.0	915.691
22.5	789.694
25.0	658.706
27.5	548.153
30.0	435.528
32.5	330.718
35.0	245.779
37.5	173.552
40.0	112.908
42.5	68.460
45.0	38.515
47.5	17.798
50.0	8.381
52.5	6.215
55.0	4.991
57.5	4.238
60.0	3.578
62.5	3.013
65.0	2.542
67.5	2.072
70.0	1.695
72.5	1.413
75.0	1.036
77.5	0.753
80.0	0.471
82.5	0.377
85.0	0.188
87.5	0.094
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	439.89	N.A.	46.60
0-30	742.58	N.A.	78.70
0-40	899.53	N.A.	95.40
0-60	939.10	N.A.	99.60
0-80	942.77	N.A.	100.00
0-90	943.01	N.A.	100.00
10-90	816.60	N.A.	86.60
20-40	459.64	N.A.	48.70
20-50	494.44	N.A.	52.40
40-70	42.11	N.A.	4.50
60-80	3.66	N.A.	0.40
70-80	1.13	N.A.	0.10
80-90	0.24	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	943.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.41
10-20	313.48
20-30	302.69
30-40	156.95
40-50	34.80
50-60	4.77
60-70	2.54
70-80	1.13
80-90	0.24
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	33	33	33	33	32	32	32	32	30	30	30	29	29	29	28	28	28	27
1	31	30	30	29	30	30	29	29	29	28	28	28	27	27	27	27	26	26
2	30	28	27	27	29	28	27	26	27	26	26	26	26	25	26	25	25	24
3	28	27	25	24	28	26	25	24	26	25	24	25	24	23	24	24	23	23
4	27	25	24	23	27	25	24	22	24	23	22	24	23	22	23	22	22	21
5	26	24	22	21	25	23	22	21	23	22	21	22	21	21	22	21	20	20
6	25	22	21	20	24	22	21	20	22	20	20	21	20	19	21	20	19	19
7	24	21	20	19	23	21	20	19	21	19	18	20	19	18	20	19	18	18
8	22	20	19	17	22	20	18	17	20	18	17	19	18	17	19	18	17	17
9	22	19	18	17	21	19	17	16	19	17	16	18	17	16	18	17	16	16
10	21	18	17	16	20	18	17	16	18	16	16	18	16	16	17	16	16	15

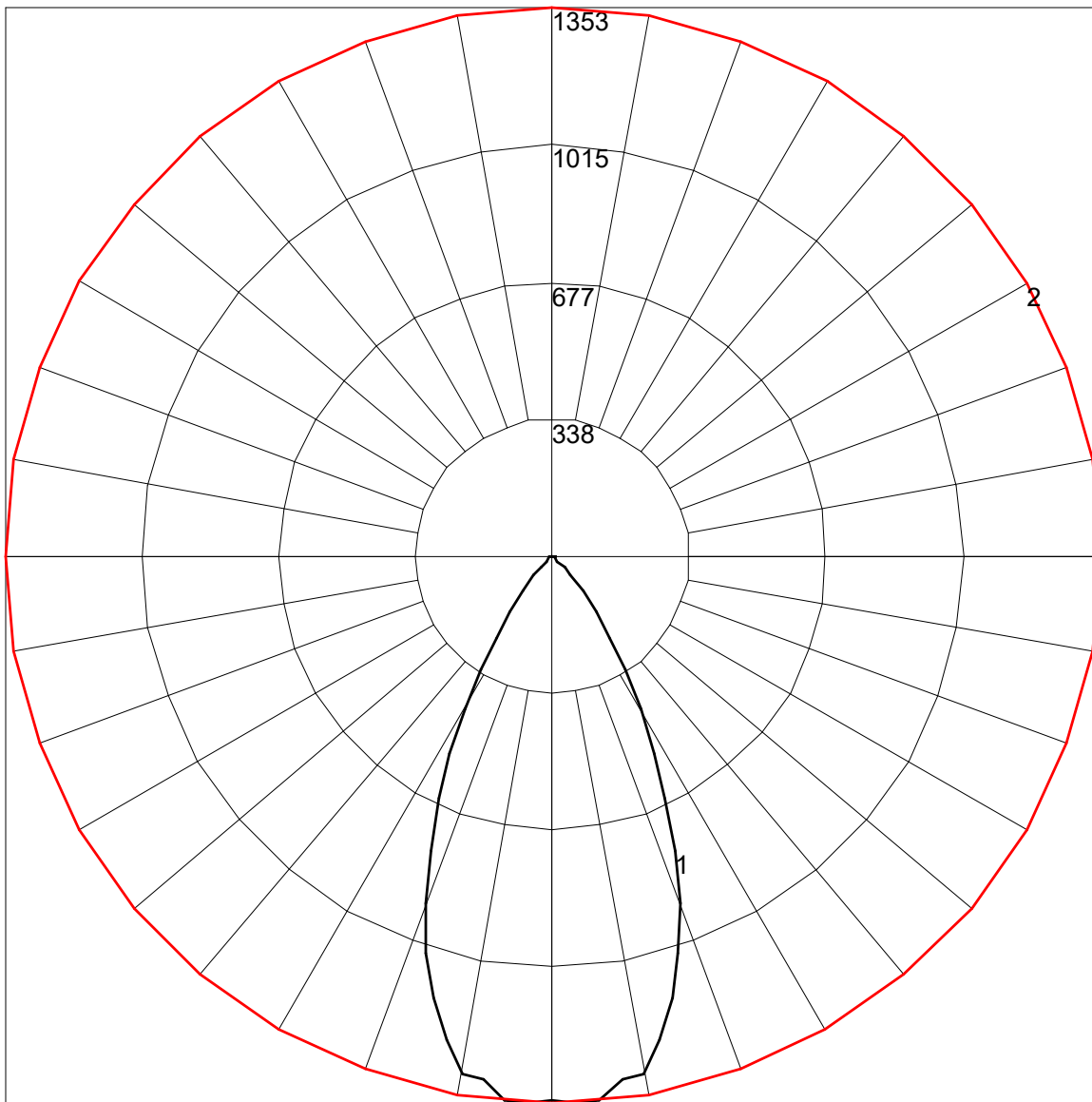
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UGR TABLE - CORRECTED

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	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
4H	2H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
8H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
12H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

Maximum UGR = 4.3

POLAR GRAPH



Maximum Candela = 1353.007 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.)