



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P11-8TW-POE-OW-CS 3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 22-JUN-2021

[MANUFAC] H.E. WILLIAMS

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

[LUMINAIRE] 8.5 INCH RECESSED LED PoE DOWNLIGHT FIXTURE WITH

[MORE] 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	952
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	11.9
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	2200	2200	2200
55	365	365	365
65	251	251	251
75	195	195	195
85	145	145	145

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CANDELA TABULATION

	<u>0</u>
0.0	930.808
2.5	932.012
5.0	936.639
7.5	918.776
10.0	900.914
12.5	889.437
15.0	853.896
17.5	822.151
20.0	796.421
22.5	770.506
25.0	738.575
27.5	682.488
30.0	582.900
32.5	473.965
35.0	364.845
37.5	262.481
40.0	172.242
42.5	104.770
45.0	57.013
47.5	24.989
50.0	12.310
52.5	9.626
55.0	7.682
57.5	6.386
60.0	5.368
62.5	4.535
65.0	3.887
67.5	3.239
70.0	2.684
72.5	2.221
75.0	1.851
77.5	1.481
80.0	1.111
82.5	0.740
85.0	0.463
87.5	0.185
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	328.22	N.A.	34.50
0-30	658.94	N.A.	69.20
0-40	886.11	N.A.	93.10
0-60	945.68	N.A.	99.30
0-80	951.52	N.A.	99.90
0-90	952.05	N.A.	100.00
10-90	864.10	N.A.	90.80
20-40	557.89	N.A.	58.60
20-50	610.22	N.A.	64.10
40-70	63.45	N.A.	6.70
60-80	5.84	N.A.	0.60
70-80	1.96	N.A.	0.20
80-90	0.53	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	952.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.95
10-20	240.27
20-30	330.72
30-40	227.17
40-50	52.33
50-60	7.24
60-70	3.88
70-80	1.96
80-90	0.53
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	28	29	28	28	28	27	27	27	26	26	26
2	29	28	27	26	29	28	27	26	27	26	25	26	25	25	25	25	24	24
3	28	26	25	24	27	26	24	23	25	24	23	24	23	23	24	23	22	22
4	26	24	23	22	26	24	23	22	23	22	21	23	22	21	22	22	21	20
5	25	23	21	20	25	23	21	20	22	21	20	22	20	20	21	20	19	19
6	24	21	20	18	23	21	20	18	21	19	18	20	19	18	20	19	18	18
7	23	20	18	17	22	20	18	17	19	18	17	19	18	17	19	18	17	16
8	21	19	17	16	21	19	17	16	18	17	16	18	17	16	18	17	16	15
9	20	18	16	15	20	18	16	15	17	16	15	17	16	15	17	16	15	14
10	19	17	15	14	19	17	15	14	16	15	14	16	15	14	16	15	14	13

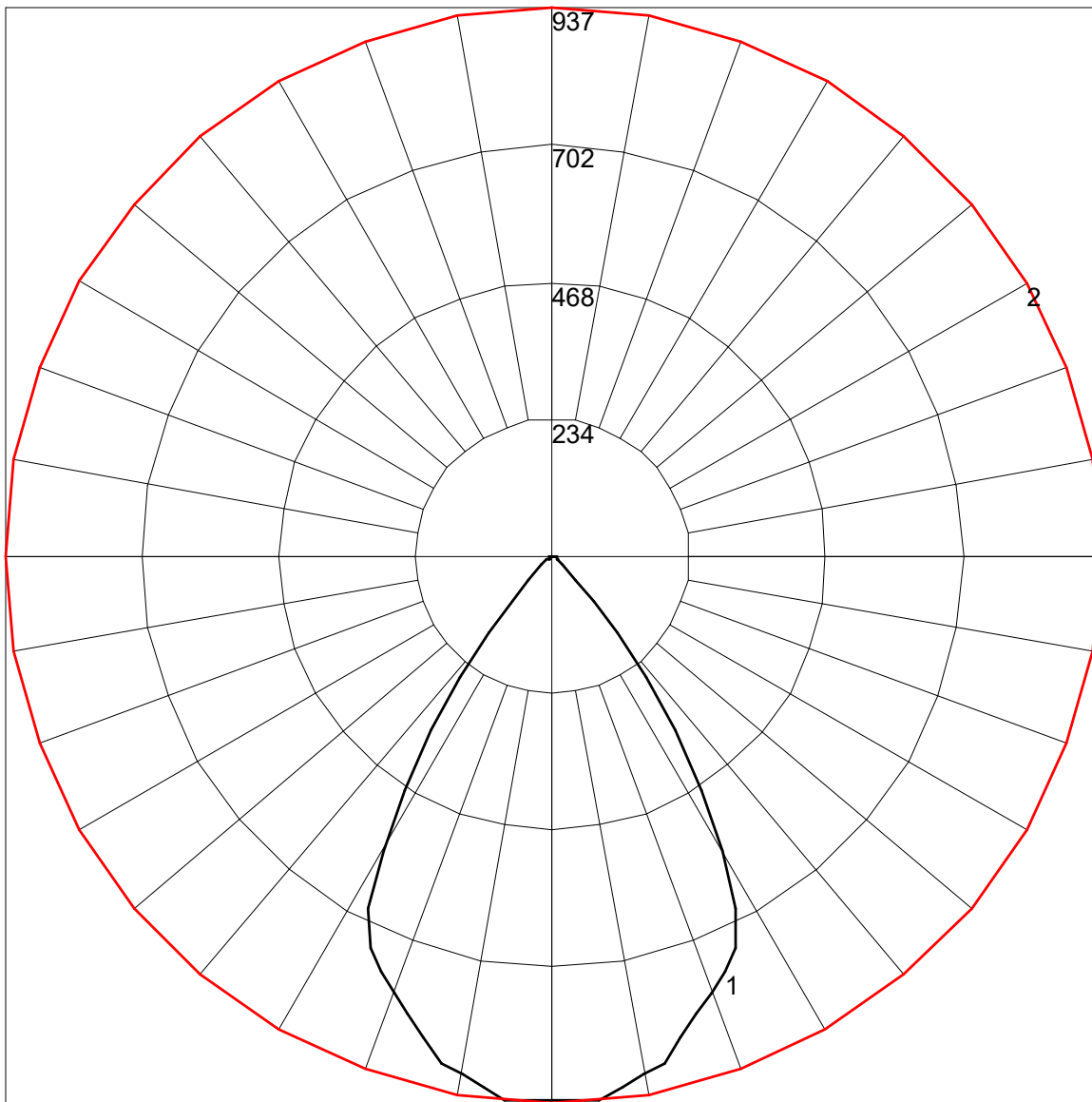
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**UGR TABLE - CORRECTED**

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	4.5	4.3	4.3	4.3	4.3	4.5
	6H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.4	4.8
	8H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.4	4.8
	12H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.4	4.8
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	4.5	4.3	4.3	4.3	4.3	4.5
	4H	4.3	4.3	4.3	4.6	5.0	4.3	4.3	4.3	4.6	5.0
	6H	4.3	4.5	4.4	4.9	5.4	4.3	4.5	4.4	4.9	5.4
	8H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.0	5.5
	12H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.0	5.5
8H	4H	4.3	4.3	4.3	4.6	5.1	4.3	4.3	4.3	4.6	5.1
	6H	4.3	4.6	4.7	5.1	5.6	4.3	4.6	4.7	5.1	5.6
	8H	4.4	4.7	4.9	5.2	5.7	4.4	4.7	4.9	5.2	5.7
	12H	4.5	4.8	5.0	5.3	5.9	4.5	4.8	5.0	5.3	5.9
12H	4H	4.3	4.3	4.3	4.5	5.0	4.3	4.3	4.3	4.5	5.0
	6H	4.3	4.5	4.8	5.0	5.6	4.3	4.5	4.8	5.0	5.6
	8H	4.4	4.7	4.9	5.2	5.8	4.4	4.7	4.9	5.2	5.8

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 936.639 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.)