



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P64-8TW-POE-OM-CS 3000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 21-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P64/8TW-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	3448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	43.5
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	5435	5435	5435
55	868	868	868
65	600	600	600
75	399	399	399
85	216	216	216

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CANDELA TABULATION

	<u>0</u>
0.0	4922.368
2.5	4947.159
5.0	4937.174
7.5	4782.575
10.0	4762.949
12.5	4476.477
15.0	4150.408
17.5	3778.544
20.0	3348.147
22.5	2887.450
25.0	2408.503
27.5	2004.274
30.0	1592.471
32.5	1209.244
35.0	898.670
37.5	634.578
40.0	412.837
42.5	250.319
45.0	140.826
47.5	65.076
50.0	30.644
52.5	22.725
55.0	18.249
57.5	15.494
60.0	13.084
62.5	11.018
65.0	9.296
67.5	7.575
70.0	6.198
72.5	5.165
75.0	3.787
77.5	2.755
80.0	1.722
82.5	1.377
85.0	0.689
87.5	0.345
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1608.42	N.A.	46.60
0-30	2715.19	N.A.	78.70
0-40	3289.06	N.A.	95.40
0-60	3433.75	N.A.	99.60
0-80	3447.14	N.A.	100.00
0-90	3448.03	N.A.	100.00
10-90	2985.84	N.A.	86.60
20-40	1680.64	N.A.	48.70
20-50	1807.9	N.A.	52.40
40-70	153.96	N.A.	4.50
60-80	13.40	N.A.	0.40
70-80	4.13	N.A.	0.10
80-90	0.89	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	3448.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	462.19
10-20	1146.23
20-30	1106.77
30-40	573.87
40-50	127.26
50-60	17.43
60-70	9.27
70-80	4.13
80-90	0.89
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	65	65	65	65	63	63	63	63	60	60	60	58	58	58	55	55	55	54
1	62	60	59	58	60	59	58	57	57	56	55	55	54	54	53	53	52	51
2	59	56	54	53	58	55	54	52	54	52	51	52	51	50	51	50	49	48
3	56	53	50	48	55	52	50	48	51	49	47	49	48	47	48	47	46	45
4	54	50	47	45	53	49	47	45	48	46	44	47	45	44	46	44	43	42
5	51	47	44	42	50	46	44	42	45	43	41	45	43	41	44	42	41	40
6	49	44	41	39	48	44	41	39	43	41	39	42	40	38	42	40	38	37
7	47	42	39	37	46	42	39	37	41	38	36	40	38	36	40	38	36	35
8	45	40	37	35	44	39	37	35	39	36	34	38	36	34	38	36	34	33
9	43	38	35	33	42	38	35	33	37	34	33	37	34	32	36	34	32	32
10	41	36	33	31	40	36	33	31	35	33	31	35	32	31	34	32	31	30

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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

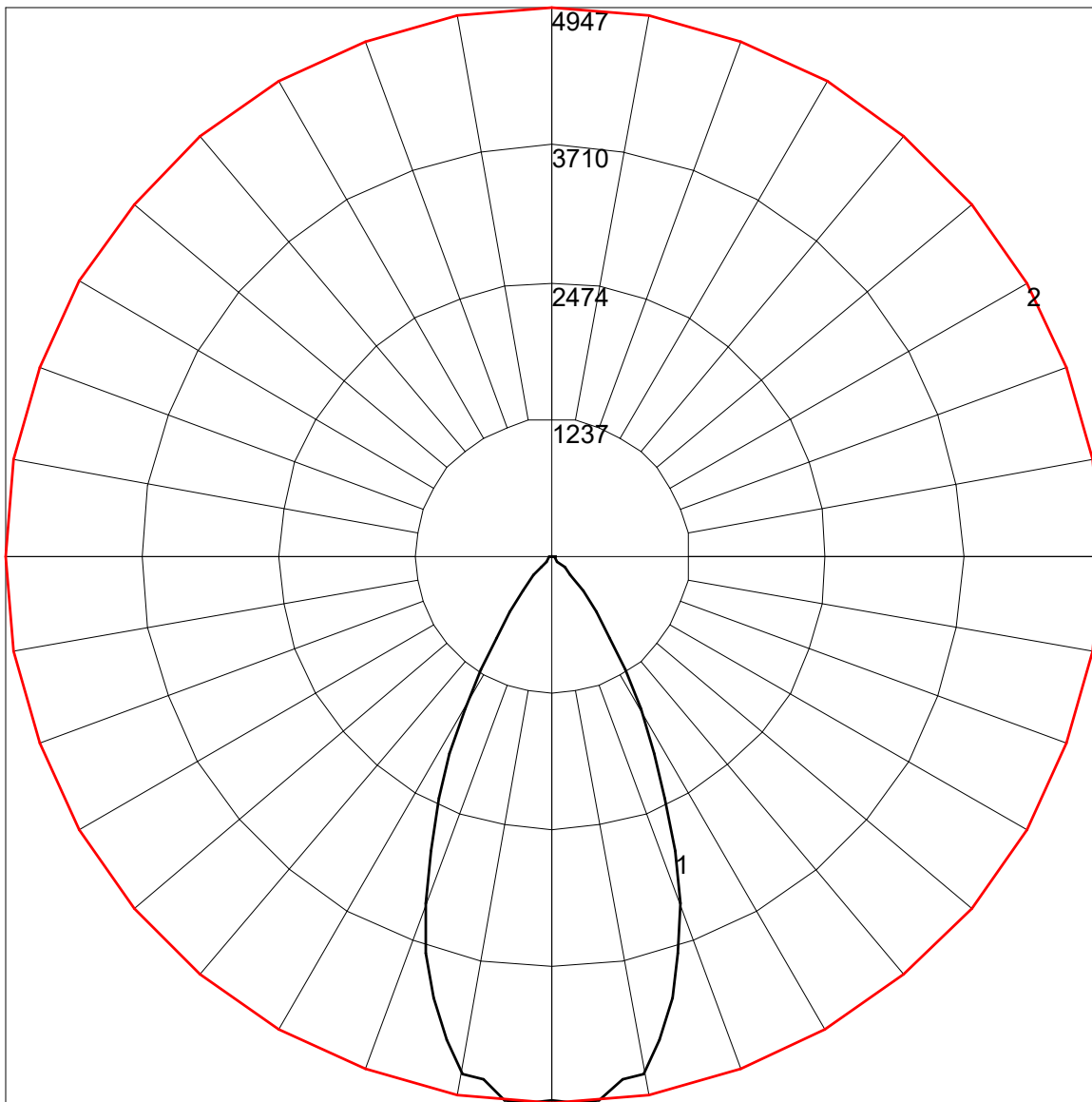
X=2H	Y=2H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	3H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

UGR Viewed Endwise

4H	2H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	3H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
8H	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	12H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
12H	4H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	6H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
	8H	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5

Maximum UGR = 6.5

POLAR GRAPH



Maximum Candela = 4947.159 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.)