



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P64-8TW-POE-OW-CS 3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P64/8TW-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

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### 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)	80
Total Luminaire Watts	43.5
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

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**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	65	65	65	65	63	63	63	63	60	60	60	58	58	58	55	55	55	54
1	61	60	59	57	60	59	58	56	57	56	55	55	54	53	53	52	52	51
2	58	56	53	52	57	55	53	51	53	51	50	51	50	49	50	49	48	47
3	55	52	49	47	54	51	49	47	50	48	46	48	47	45	47	46	44	44
4	52	48	45	43	51	48	45	43	47	44	42	45	43	42	44	43	41	40
5	50	45	42	40	49	45	42	39	44	41	39	43	40	39	42	40	38	38
6	47	42	39	37	46	42	39	36	41	38	36	40	38	36	40	37	36	35
7	45	40	36	34	44	39	36	34	39	36	34	38	35	34	37	35	33	33
8	42	37	34	32	42	37	34	32	36	33	31	36	33	31	35	33	31	30
9	40	35	32	30	40	35	32	30	34	31	29	34	31	29	33	31	29	28
10	38	33	30	28	38	33	30	28	32	30	28	32	29	28	32	29	27	27

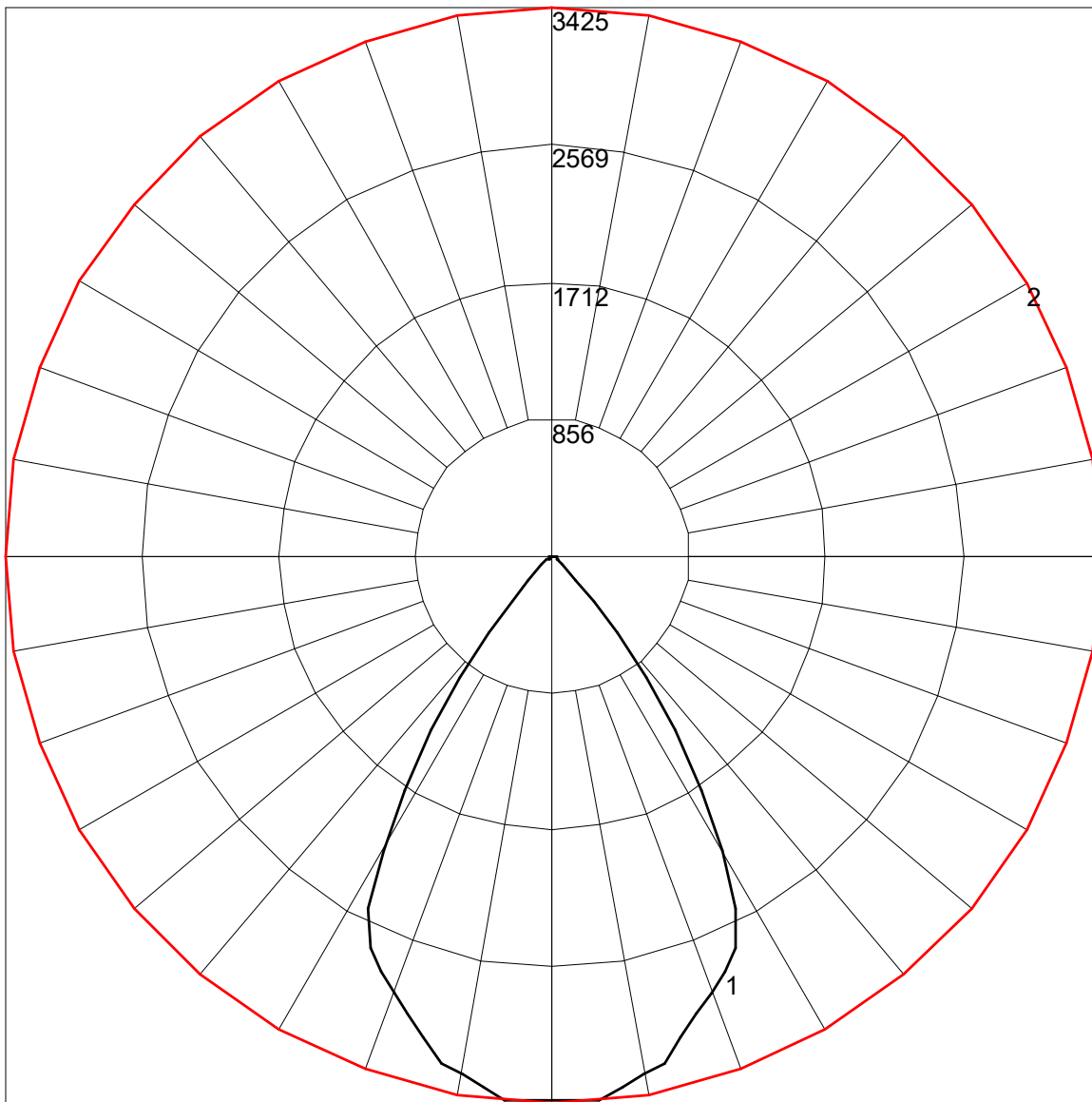
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**UGR TABLE - CORRECTED**

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	6.5	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	6.5
	4H	6.5	6.5	6.5	6.5	6.7	6.5	6.5	6.5	6.5	6.7
	6H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
	8H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
	12H	6.5	6.5	6.5	6.6	7.0	6.5	6.5	6.5	6.6	7.0
4H	2H	6.5	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	6.7	6.5	6.5	6.5	6.5	6.7
	4H	6.5	6.5	6.5	6.8	7.2	6.5	6.5	6.5	6.8	7.2
	6H	6.5	6.7	6.6	7.1	7.6	6.5	6.7	6.6	7.1	7.6
	8H	6.5	6.7	6.8	7.2	7.7	6.5	6.7	6.8	7.2	7.7
	12H	6.5	6.7	6.8	7.2	7.7	6.5	6.7	6.8	7.2	7.7
8H	4H	6.5	6.5	6.5	6.8	7.3	6.5	6.5	6.5	6.8	7.3
	6H	6.5	6.8	6.9	7.3	7.8	6.5	6.8	6.9	7.3	7.8
	8H	6.6	6.9	7.1	7.4	7.9	6.6	6.9	7.1	7.4	7.9
	12H	6.7	7.0	7.2	7.5	8.1	6.7	7.0	7.2	7.5	8.1
12H	4H	6.5	6.5	6.5	6.7	7.2	6.5	6.5	6.5	6.7	7.2
	6H	6.5	6.7	7.0	7.2	7.8	6.5	6.7	7.0	7.2	7.8
	8H	6.6	6.9	7.1	7.4	8.0	6.6	6.9	7.1	7.4	8.0

Maximum UGR = 8.1

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.)