



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P64-8TW-POE-ON-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-ON-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	3159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	43.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.68
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	5261	5261	5261
55	473	473	473
65	298	298	298
75	187	187	187
85	111	111	111

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CANDELA TABULATION

	<u>0</u>
0.0	5615.762
2.5	5675.761
5.0	5539.432
7.5	5332.099
10.0	4869.858
12.5	4362.884
15.0	3828.574
17.5	3291.068
20.0	2720.546
22.5	2275.346
25.0	1956.180
27.5	1695.237
30.0	1430.035
32.5	1156.312
35.0	885.429
37.5	626.972
40.0	402.597
42.5	243.901
45.0	136.329
47.5	58.579
50.0	19.526
52.5	12.071
55.0	9.941
57.5	8.521
60.0	7.100
62.5	5.680
65.0	4.615
67.5	3.550
70.0	2.840
72.5	2.130
75.0	1.775
77.5	1.420
80.0	1.065
82.5	0.710
85.0	0.355
87.5	0.355
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1560.95	N.A.	49.40
0-30	2470.13	N.A.	78.20
0-40	3020.42	N.A.	95.60
0-60	3151.98	N.A.	99.80
0-80	3158.54	N.A.	100.00
0-90	3159.08	N.A.	100.00
10-90	2649.83	N.A.	83.90
20-40	1459.48	N.A.	46.20
20-50	1581.29	N.A.	50.10
40-70	136.20	N.A.	4.30
60-80	6.56	N.A.	0.20
70-80	1.92	N.A.	0.10
80-90	0.53	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	3159.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	509.25
10-20	1051.7
20-30	909.18
30-40	550.29
40-50	121.81
50-60	9.75
60-70	4.64
70-80	1.92
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 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	57	55	53	58	56	54	52	54	52	51	52	51	50	51	50	49	48
3	56	53	51	49	55	52	50	48	51	49	48	50	48	47	49	47	46	45
4	54	50	47	45	53	50	47	45	48	46	44	47	45	44	46	45	43	43
5	51	47	44	42	51	47	44	42	46	44	42	45	43	41	44	42	41	40
6	49	45	42	40	48	44	42	40	44	41	39	43	41	39	42	40	39	38
7	47	42	39	37	46	42	39	37	41	39	37	41	39	37	40	38	37	36
8	45	40	37	35	44	40	37	35	39	37	35	39	37	35	38	36	35	34
9	43	38	35	33	43	38	35	33	38	35	33	37	35	33	37	35	33	32
10	41	37	34	32	41	36	34	32	36	33	32	36	33	32	35	33	32	31

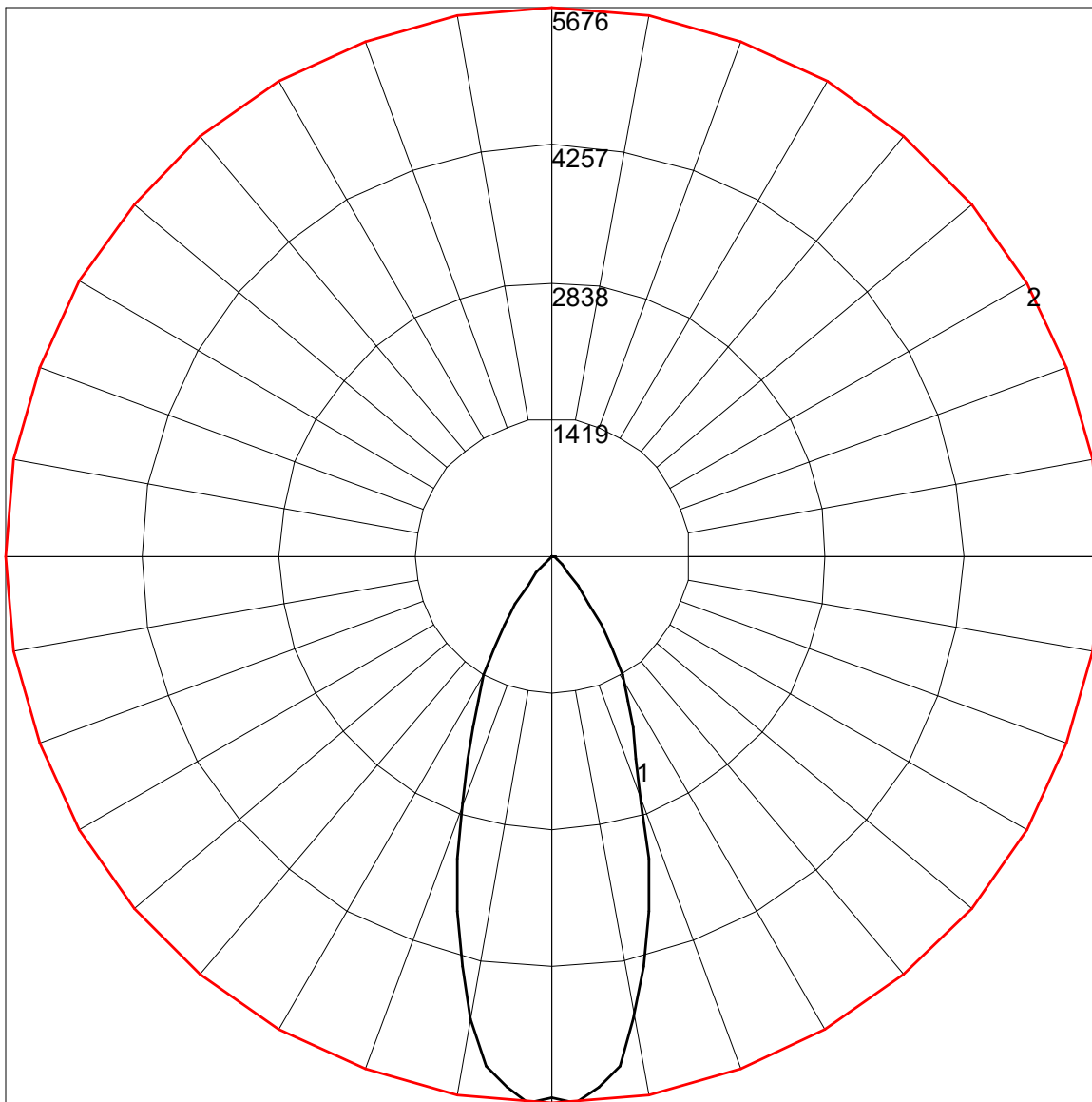
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**UGR TABLE - CORRECTED**

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	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
4H	2H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	3H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
8H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	12H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
12H	4H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	6H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
	8H	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

Maximum UGR = 6.2

POLAR GRAPH



Maximum Candela = 5675.761 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.)