



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P34-8TW-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-P34/8TW-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	1915
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	23.1
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	4426	4426	4426
55	735	735	735
65	505	505	505
75	393	393	393
85	292	292	292

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CANDELA TABULATION

	<u>0</u>
0.0	1872.372
2.5	1874.793
5.0	1884.101
7.5	1848.169
10.0	1812.237
12.5	1789.151
15.0	1717.660
17.5	1653.801
20.0	1602.045
22.5	1549.915
25.0	1485.684
27.5	1372.862
30.0	1172.536
32.5	953.407
35.0	733.906
37.5	527.995
40.0	346.474
42.5	210.751
45.0	114.685
47.5	50.267
50.0	24.761
52.5	19.362
55.0	15.453
57.5	12.846
60.0	10.798
62.5	9.122
65.0	7.819
67.5	6.516
70.0	5.399
72.5	4.468
75.0	3.724
77.5	2.979
80.0	2.234
82.5	1.489
85.0	0.931
87.5	0.372
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	660.23	N.A.	34.50
0-30	1325.5	N.A.	69.20
0-40	1782.45	N.A.	93.10
0-60	1902.28	N.A.	99.30
0-80	1914.03	N.A.	99.90
0-90	1915.1	N.A.	100.00
10-90	1738.18	N.A.	90.80
20-40	1122.22	N.A.	58.60
20-50	1227.49	N.A.	64.10
40-70	127.63	N.A.	6.70
60-80	11.75	N.A.	0.60
70-80	3.95	N.A.	0.20
80-90	1.06	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	1915.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	176.92
10-20	483.31
20-30	665.27
30-40	456.96
40-50	105.27
50-60	14.56
60-70	7.80
70-80	3.95
80-90	1.06
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	64	64	64	64	61	61	61	59	59	59	56	56	56	55
1	62	61	59	58	61	60	58	57	57	56	56	55	55	54	53	53	52	51
2	59	57	54	52	58	56	54	52	54	52	51	52	51	50	51	50	49	48
3	56	53	50	48	55	52	49	47	50	48	46	49	47	46	48	46	45	44
4	53	49	46	44	52	48	46	43	47	45	43	46	44	42	45	43	42	41
5	50	46	43	40	50	45	42	40	44	42	40	43	41	39	43	41	39	38
6	48	43	40	37	47	42	39	37	42	39	37	41	38	36	40	38	36	35
7	45	40	37	34	45	40	37	34	39	36	34	38	36	34	38	36	34	33
8	43	38	34	32	42	37	34	32	37	34	32	36	34	32	36	33	32	31
9	41	36	32	30	40	35	32	30	35	32	30	34	32	30	34	31	30	29
10	39	34	30	28	38	33	30	28	33	30	28	32	30	28	32	30	28	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

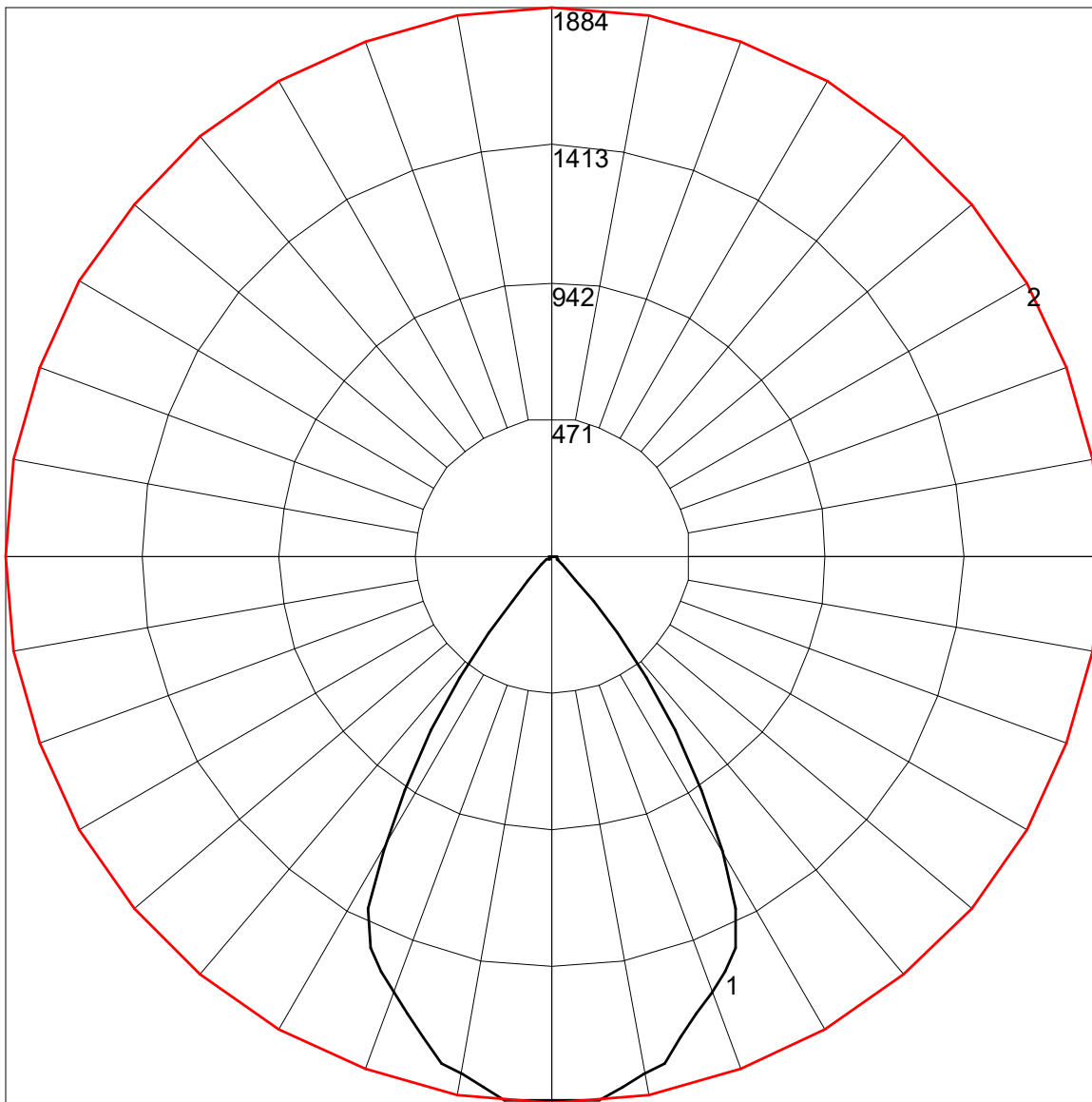
X=2H	Y=2H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.5	4.3	4.3	4.3	4.5
	6H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.8
	8H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.8
	12H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.8

UGR Viewed Endwise

4H	2H	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	4.5
	4H	4.3	4.3	4.3	4.6	5.0	4.3	4.3	4.3	5.0
	6H	4.3	4.5	4.4	4.9	5.4	4.3	4.5	4.4	5.4
	8H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.5
	12H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.5
8H	4H	4.3	4.3	4.3	4.6	5.1	4.3	4.3	4.3	5.1
	6H	4.3	4.6	4.7	5.1	5.6	4.3	4.6	4.7	5.6
	8H	4.4	4.7	4.9	5.2	5.7	4.4	4.7	4.9	5.7
	12H	4.5	4.8	5.0	5.3	5.9	4.5	4.8	5.0	5.9
12H	4H	4.3	4.3	4.3	4.5	5.0	4.3	4.3	4.3	5.0
	6H	4.3	4.5	4.8	5.0	5.6	4.3	4.5	4.8	5.6
	8H	4.4	4.7	4.9	5.2	5.8	4.4	4.7	4.9	5.8

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 1884.101 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.)