



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P34-8TW-POE-OM-CS 3000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 2-JUL-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P34/8TW-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	1896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	23.1
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	2989	2989	2989
55	477	477	477
65	330	330	330
75	220	220	220
85	119	119	119

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CANDELA TABULATION

	<u>0</u>
0.0	2706.731
2.5	2720.363
5.0	2714.872
7.5	2629.861
10.0	2619.069
12.5	2461.542
15.0	2282.242
17.5	2077.761
20.0	1841.092
22.5	1587.762
25.0	1324.397
27.5	1102.118
30.0	875.674
32.5	664.944
35.0	494.164
37.5	348.944
40.0	227.012
42.5	137.646
45.0	77.438
47.5	35.784
50.0	16.851
52.5	12.496
55.0	10.035
57.5	8.520
60.0	7.195
62.5	6.059
65.0	5.112
67.5	4.166
70.0	3.408
72.5	2.840
75.0	2.083
77.5	1.515
80.0	0.947
82.5	0.757
85.0	0.379
87.5	0.190
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	884.45	N.A.	46.60
0-30	1493.04	N.A.	78.70
0-40	1808.6	N.A.	95.40
0-60	1888.16	N.A.	99.60
0-80	1895.53	N.A.	100.00
0-90	1896.02	N.A.	100.00
10-90	1641.87	N.A.	86.60
20-40	924.16	N.A.	48.70
20-50	994.13	N.A.	52.40
40-70	84.66	N.A.	4.50
60-80	7.37	N.A.	0.40
70-80	2.27	N.A.	0.10
80-90	0.49	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	1896.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	254.15
10-20	630.29
20-30	608.59
30-40	315.56
40-50	69.98
50-60	9.58
60-70	5.10
70-80	2.27
80-90	0.49
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	58	58	58	56	56	56	55
1	63	61	60	59	61	60	59	58	58	57	56	56	55	54	54	53	53	52
2	60	57	55	53	59	56	54	53	55	53	52	53	52	51	51	50	50	49
3	57	54	51	49	56	53	51	49	52	50	48	50	49	47	49	48	46	46
4	54	50	48	45	53	50	47	45	49	46	45	48	46	44	47	45	44	43
5	52	48	45	42	51	47	44	42	46	44	42	45	43	41	44	43	41	40
6	50	45	42	40	49	45	42	40	44	41	39	43	41	39	42	40	39	38
7	47	43	39	37	47	42	39	37	42	39	37	41	39	37	40	38	37	36
8	45	40	37	35	45	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	34	33	32
10	41	36	33	31	41	36	33	31	36	33	31	35	33	31	35	33	31	31

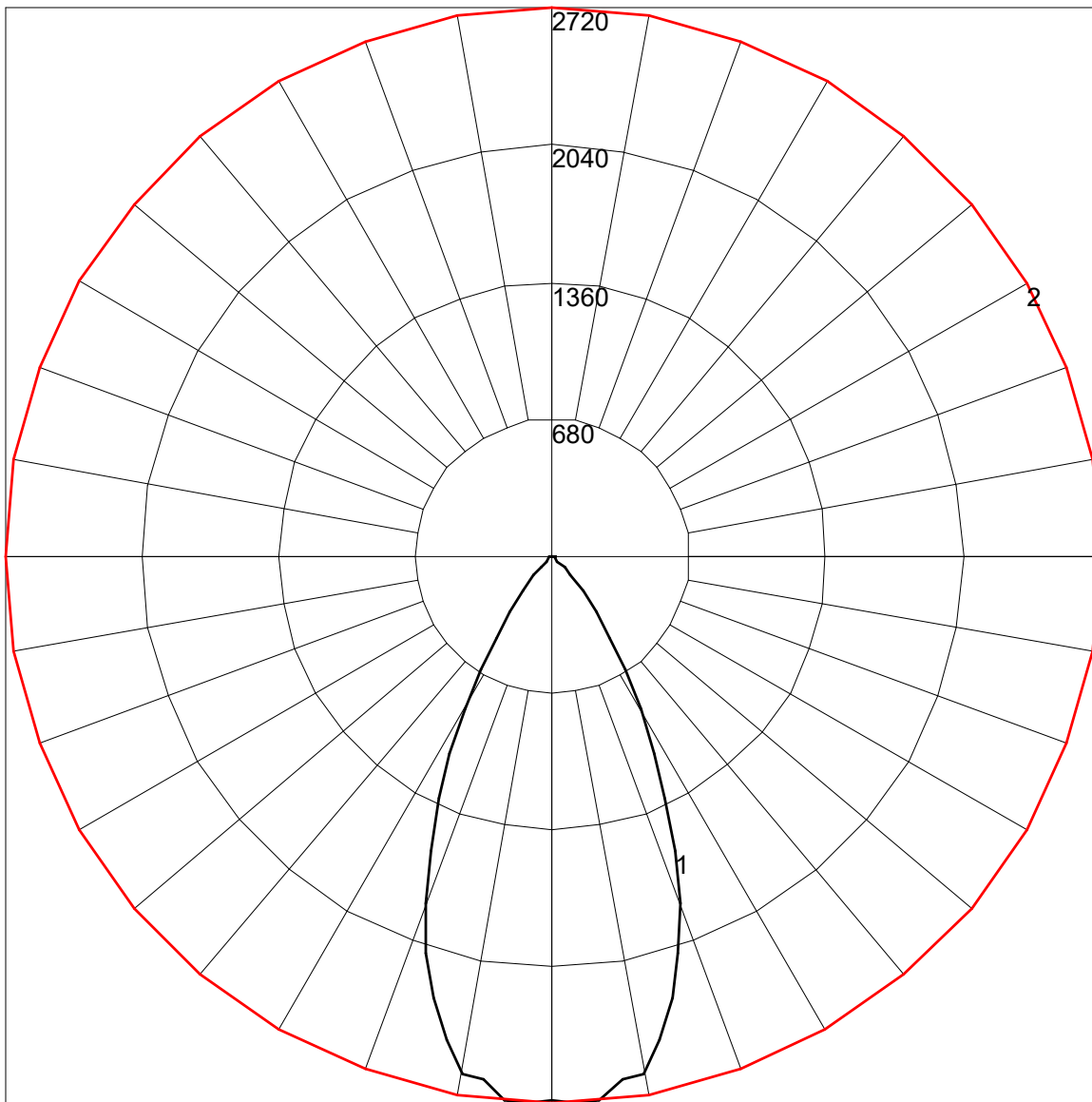
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**UGR TABLE - CORRECTED**

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	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	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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	4.3	4.3	4.3	4.3	4.3	4.3
	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
8H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	12H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
12H	4H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	6H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	8H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

Maximum UGR = 4.3

POLAR GRAPH



Maximum Candela = 2720.363 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.)