



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P19-8TW-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-P19/8TW-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.

[ABSOLUTE LUMENS] 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	1409
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	17
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	3257	3257	3257
55	541	541	541
65	371	371	371
75	289	289	289
85	214	214	214

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CANDELA TABULATION

	<u>0</u>
0.0	1377.636
2.5	1379.417
5.0	1386.266
7.5	1359.828
10.0	1333.390
12.5	1316.404
15.0	1263.803
17.5	1216.818
20.0	1178.737
22.5	1140.382
25.0	1093.122
27.5	1010.111
30.0	862.717
32.5	701.489
35.0	539.986
37.5	388.483
40.0	254.925
42.5	155.064
45.0	84.381
47.5	36.985
50.0	18.219
52.5	14.246
55.0	11.370
57.5	9.452
60.0	7.945
62.5	6.712
65.0	5.753
67.5	4.794
70.0	3.972
72.5	3.287
75.0	2.740
77.5	2.192
80.0	1.644
82.5	1.096
85.0	0.685
87.5	0.274
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	485.78	N.A.	34.50
0-30	975.26	N.A.	69.20
0-40	1311.48	N.A.	93.10
0-60	1399.64	N.A.	99.30
0-80	1408.29	N.A.	99.90
0-90	1409.07	N.A.	100.00
10-90	1278.9	N.A.	90.80
20-40	825.70	N.A.	58.60
20-50	903.15	N.A.	64.10
40-70	93.90	N.A.	6.70
60-80	8.64	N.A.	0.60
70-80	2.91	N.A.	0.20
80-90	0.78	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	1409.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.17
10-20	355.61
20-30	489.48
30-40	336.22
40-50	77.45
50-60	10.71
60-70	5.74
70-80	2.91
80-90	0.78
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	48	48	48	48	47	47	47	47	45	45	45	43	43	43	41	41	41	40
1	46	45	44	43	45	44	43	42	42	42	41	41	40	40	39	39	38	38
2	44	42	40	39	43	41	39	38	40	38	37	38	37	36	37	36	36	35
3	41	39	37	35	41	38	36	35	37	35	34	36	35	34	35	34	33	32
4	39	36	34	32	38	36	34	32	35	33	31	34	32	31	33	32	31	30
5	37	34	31	30	36	33	31	29	33	31	29	32	30	29	31	30	29	28
6	35	32	29	27	35	31	29	27	31	29	27	30	28	27	30	28	27	26
7	33	30	27	25	33	29	27	25	29	27	25	28	26	25	28	26	25	24
8	32	28	25	24	31	28	25	24	27	25	23	27	25	23	26	25	23	23
9	30	26	24	22	30	26	24	22	26	23	22	25	23	22	25	23	22	21
10	29	25	22	21	28	25	22	21	24	22	21	24	22	21	24	22	20	20

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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

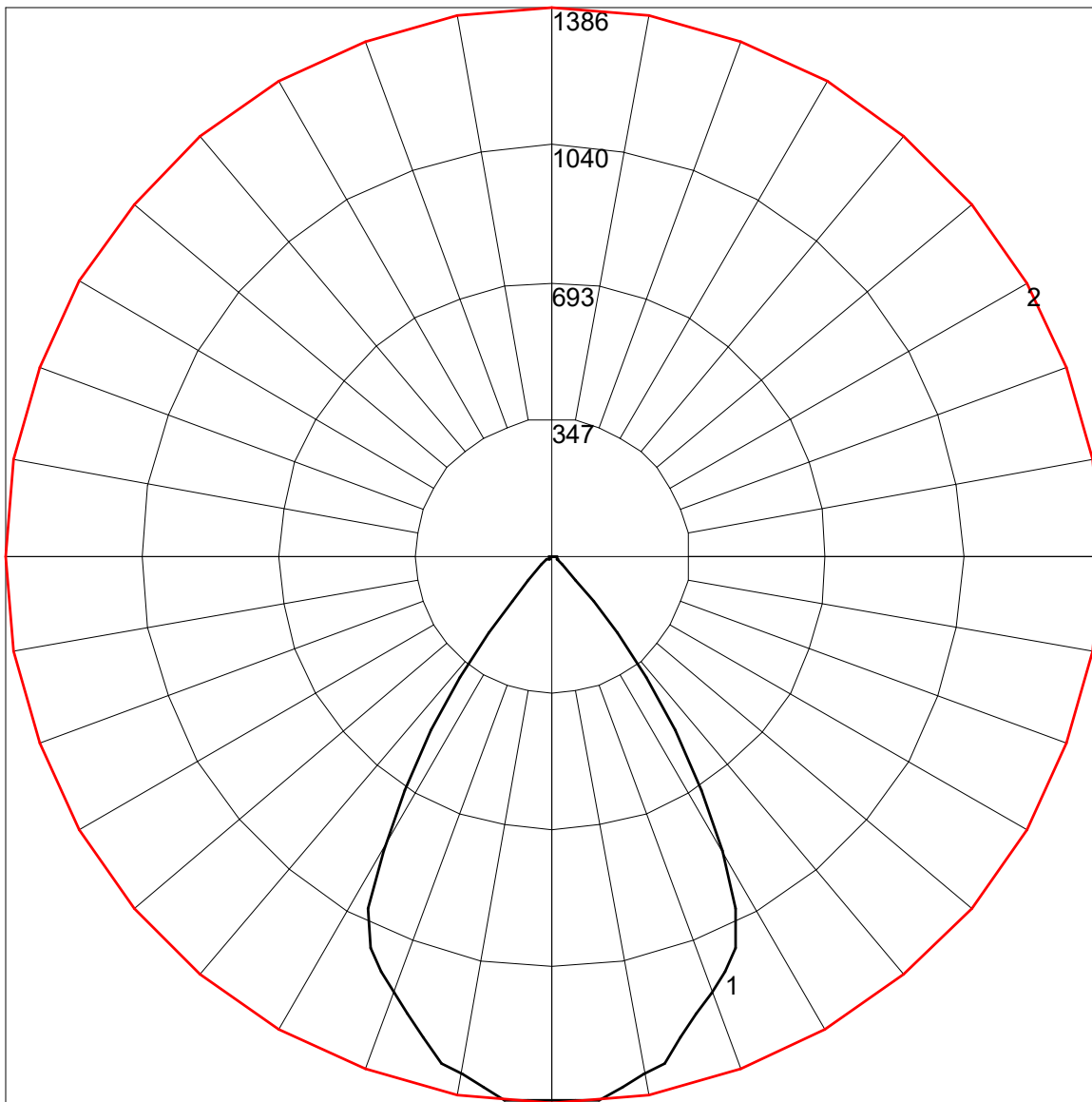
4H	2H	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	3H	4.3	4.3	4.3	4.3	4.5	4.3	4.3	4.3	4.5
	4H	4.3	4.3	4.3	4.6	5.0	4.3	4.3	4.3	5.0
	6H	4.3	4.5	4.4	4.9	5.4	4.3	4.5	4.4	5.4
	8H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.5
	12H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.5

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

12H	4H	4.3	4.3	4.3	4.5	5.0	4.3	4.3	4.3	4.5	5.0
	6H	4.3	4.5	4.8	5.0	5.6	4.3	4.5	4.8	5.0	5.6
	8H	4.4	4.7	4.9	5.2	5.8	4.4	4.7	4.9	5.2	5.8

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 1386.266 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.)