



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P19-8TW-POE-ON-CS 3000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 2-JUL-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P19/8TW-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

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1278
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	17
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	2129	2129	2129
55	191	191	191
65	121	121	121
75	76	76	76
85	45	45	45

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CANDELA TABULATION

	<u>0</u>
0.0	2271.904
2.5	2296.177
5.0	2241.024
7.5	2157.145
10.0	1970.142
12.5	1765.041
15.0	1548.882
17.5	1331.429
20.0	1100.619
22.5	920.510
25.0	791.389
27.5	685.822
30.0	578.533
32.5	467.796
35.0	358.208
37.5	253.647
40.0	162.874
42.5	98.672
45.0	55.153
47.5	23.699
50.0	7.899
52.5	4.883
55.0	4.022
57.5	3.447
60.0	2.872
62.5	2.298
65.0	1.867
67.5	1.436
70.0	1.149
72.5	0.862
75.0	0.718
77.5	0.574
80.0	0.431
82.5	0.287
85.0	0.144
87.5	0.144
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	631.49	N.A.	49.40
0-30	999.31	N.A.	78.20
0-40	1221.94	N.A.	95.60
0-60	1275.16	N.A.	99.80
0-80	1277.82	N.A.	100.00
0-90	1278.03	N.A.	100.00
10-90	1072.01	N.A.	83.90
20-40	590.44	N.A.	46.20
20-50	639.73	N.A.	50.10
40-70	55.10	N.A.	4.30
60-80	2.65	N.A.	0.20
70-80	0.78	N.A.	0.10
80-90	0.22	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	1278.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.02
10-20	425.47
20-30	367.82
30-40	222.63
40-50	49.28
50-60	3.94
60-70	1.88
70-80	0.78
80-90	0.22
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	43	43	42	41	41	41	40	40	39	39	38
2	44	42	41	39	43	42	40	39	40	39	38	39	38	37	38	37	37	36
3	42	40	38	36	41	39	37	36	38	37	36	37	36	35	36	35	34	34
4	40	37	35	34	39	37	35	34	36	34	33	35	34	33	35	33	32	32
5	38	35	33	32	38	35	33	31	34	32	31	34	32	31	33	32	31	30
6	37	33	31	30	36	33	31	30	33	31	29	32	30	29	31	30	29	28
7	35	32	29	28	35	31	29	28	31	29	28	30	29	28	30	29	27	27
8	34	30	28	26	33	30	28	26	29	28	26	29	27	26	29	27	26	25
9	32	29	26	25	32	28	26	25	28	26	25	28	26	25	27	26	25	24
10	31	27	25	24	31	27	25	24	27	25	24	27	25	24	26	25	24	23

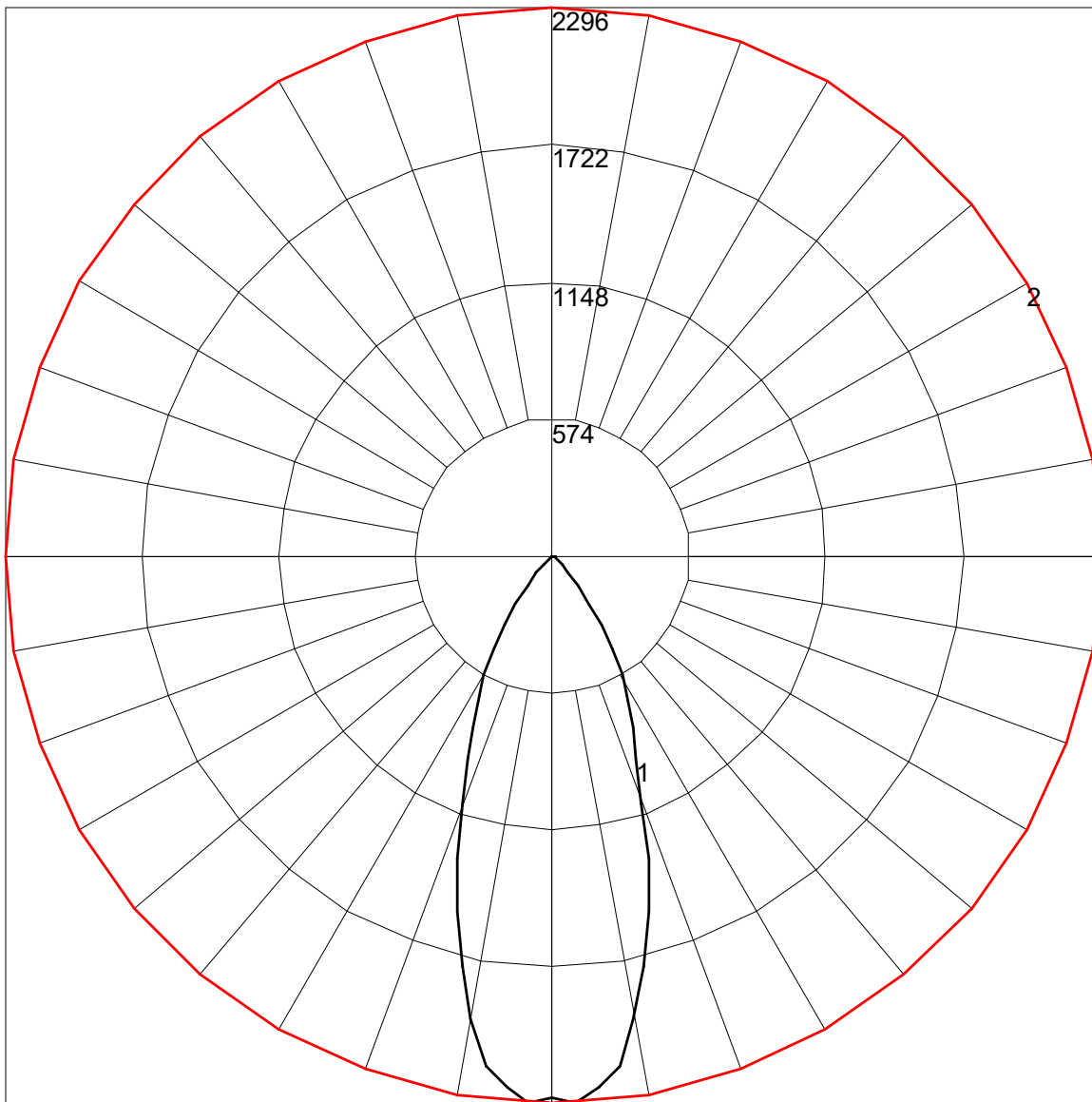
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UGR TABLE - CORRECTED

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	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
4H	2H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	3H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
8H	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	12H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
12H	4H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	6H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	8H	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0

Maximum UGR = 4.0

POLAR GRAPH



Maximum Candela = 2296.177 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.)