



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P34-8TW-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-P34/8TW-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	1737
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	23.1
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	2893	2893	2893
55	260	260	260
65	164	164	164
75	103	103	103
85	61	61	61

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CANDELA TABULATION

	<u>0</u>
0.0	3087.869
2.5	3120.860
5.0	3045.898
7.5	2931.895
10.0	2677.728
12.5	2398.965
15.0	2105.170
17.5	1809.619
20.0	1495.912
22.5	1251.116
25.0	1075.620
27.5	932.139
30.0	786.316
32.5	635.807
35.0	486.860
37.5	344.745
40.0	221.371
42.5	134.111
45.0	74.962
47.5	32.210
50.0	10.737
52.5	6.637
55.0	5.466
57.5	4.685
60.0	3.904
62.5	3.123
65.0	2.538
67.5	1.952
70.0	1.562
72.5	1.171
75.0	0.976
77.5	0.781
80.0	0.585
82.5	0.391
85.0	0.195
87.5	0.195
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	858.30	N.A.	49.40
0-30	1358.22	N.A.	78.20
0-40	1660.8	N.A.	95.60
0-60	1733.14	N.A.	99.80
0-80	1736.75	N.A.	100.00
0-90	1737.04	N.A.	100.00
10-90	1457.03	N.A.	83.90
20-40	802.51	N.A.	46.20
20-50	869.49	N.A.	50.10
40-70	74.89	N.A.	4.30
60-80	3.61	N.A.	0.20
70-80	1.05	N.A.	0.10
80-90	0.29	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	1737.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	280.01
10-20	578.28
20-30	499.92
30-40	302.58
40-50	66.98
50-60	5.36
60-70	2.55
70-80	1.05
80-90	0.29
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	54	59	56	55	53	55	53	52	53	52	51	52	51	50	49
3	57	54	51	49	56	53	51	49	52	50	48	50	49	48	49	48	47	46
4	55	51	48	46	54	50	48	46	49	47	45	48	46	45	47	45	44	43
5	52	48	45	43	51	47	45	43	47	44	42	46	44	42	45	43	42	41
6	50	45	42	40	49	45	42	40	44	42	40	43	41	40	43	41	39	39
7	48	43	40	38	47	43	40	38	42	39	38	41	39	37	41	39	37	37
8	46	41	38	36	45	41	38	36	40	37	36	39	37	35	39	37	35	35
9	44	39	36	34	43	39	36	34	38	36	34	38	35	34	37	35	34	33
10	42	37	34	32	41	37	34	32	36	34	32	36	34	32	36	34	32	31

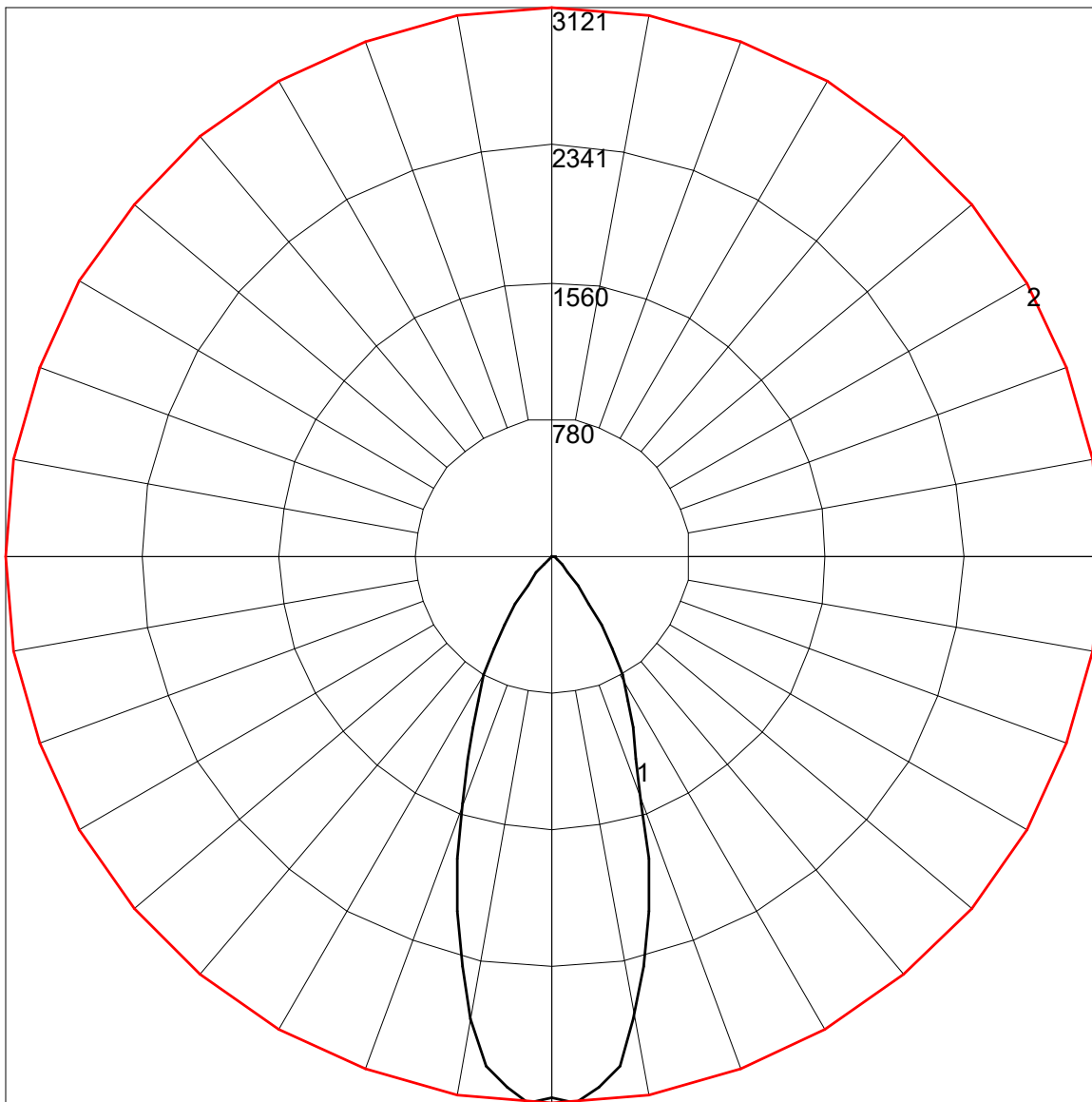
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UGR TABLE - CORRECTED

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	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 = 3120.86 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.)