



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P44-8TW-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-P44/8TW-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	2527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	34.3
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	4209	4209	4209
55	378	378	378
65	238	238	238
75	150	150	150
85	89	89	89

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CANDELA TABULATION

	<u>0</u>
0.0	4492.255
2.5	4540.250
5.0	4431.195
7.5	4265.342
10.0	3895.579
12.5	3490.031
15.0	3062.617
17.5	2632.646
20.0	2176.264
22.5	1820.133
25.0	1564.820
27.5	1356.083
30.0	1143.938
32.5	924.976
35.0	708.287
37.5	501.538
40.0	322.052
42.5	195.105
45.0	109.055
47.5	46.860
50.0	15.620
52.5	9.656
55.0	7.952
57.5	6.816
60.0	5.680
62.5	4.544
65.0	3.692
67.5	2.840
70.0	2.272
72.5	1.704
75.0	1.420
77.5	1.136
80.0	0.852
82.5	0.568
85.0	0.284
87.5	0.284
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1248.66	N.A.	49.40
0-30	1975.95	N.A.	78.20
0-40	2416.15	N.A.	95.60
0-60	2521.39	N.A.	99.80
0-80	2526.64	N.A.	100.00
0-90	2527.06	N.A.	100.00
10-90	2119.69	N.A.	83.90
20-40	1167.49	N.A.	46.20
20-50	1264.93	N.A.	50.10
40-70	108.95	N.A.	4.30
60-80	5.25	N.A.	0.20
70-80	1.53	N.A.	0.10
80-90	0.43	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	2527.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	407.37
10-20	841.29
20-30	727.29
30-40	440.20
40-50	97.44
50-60	7.80
60-70	3.71
70-80	1.53
80-90	0.43
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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	82	82	82	80
1	91	89	87	86	89	87	86	84	84	83	82	81	80	79	78	78	77	76
2	87	84	81	78	85	82	79	77	80	77	75	77	75	74	75	74	72	71
3	83	78	75	72	82	77	74	71	75	73	70	73	71	69	72	70	68	67
4	79	74	70	67	78	73	69	66	71	68	66	70	67	65	68	66	64	63
5	76	70	66	62	75	69	65	62	68	64	62	66	63	61	65	63	61	59
6	73	66	62	59	71	65	61	58	64	61	58	63	60	58	62	59	57	56
7	69	63	58	55	68	62	58	55	61	57	55	60	57	54	59	56	54	53
8	66	60	55	52	66	59	55	52	58	54	52	57	54	52	57	54	51	50
9	64	57	52	49	63	56	52	49	56	52	49	55	51	49	54	51	49	48
10	61	54	50	47	60	54	50	47	53	49	47	52	49	47	52	49	47	46

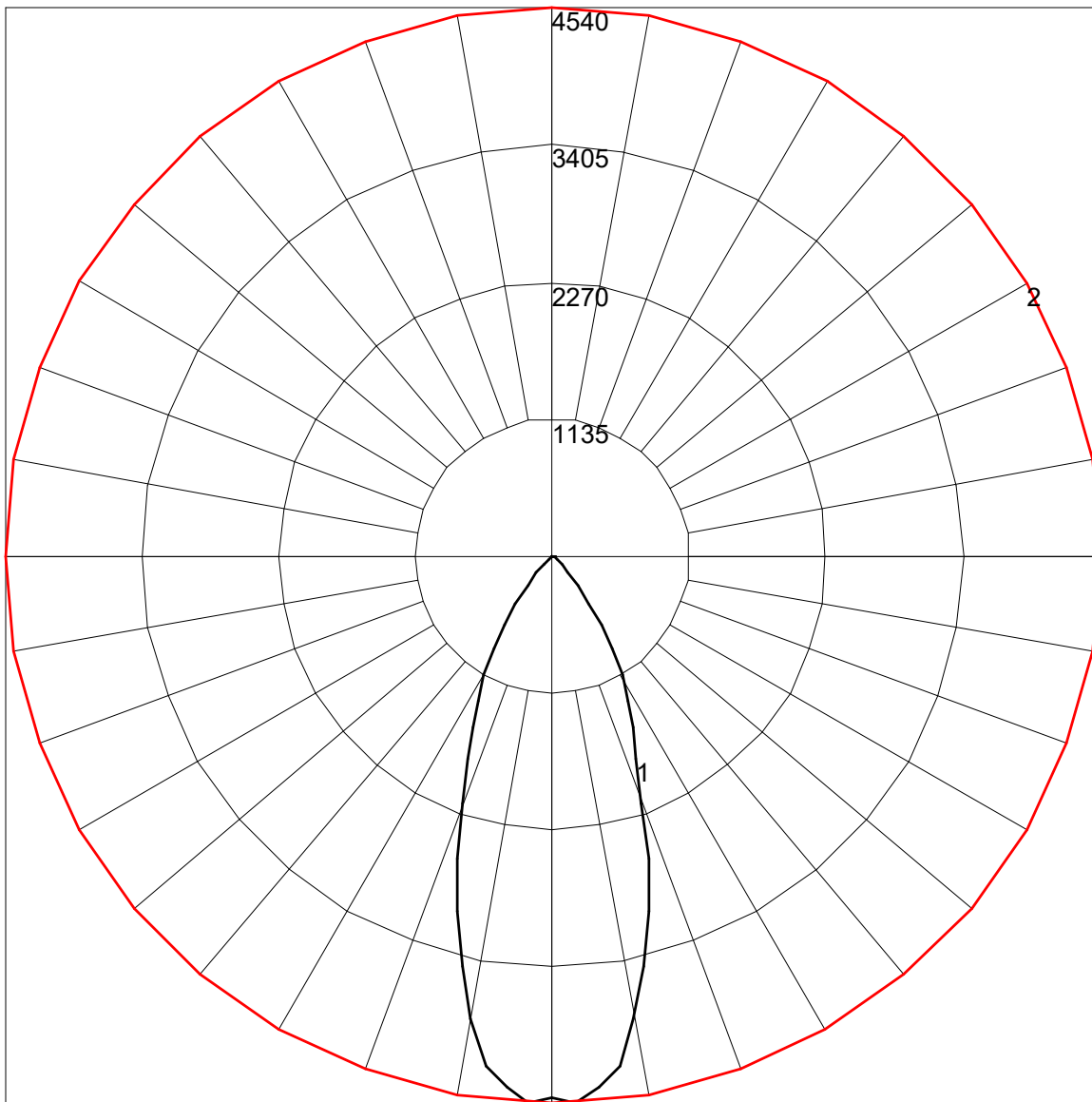
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UGR TABLE - CORRECTED

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 = 4540.25 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.)