



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P44-8TW-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-P44/8TW-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.

[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	2785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	34.3
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	6437	6437	6437
55	1069	1069	1069
65	734	734	734
75	571	571	571
85	424	424	424

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CANDELA TABULATION

	<u>0</u>
0.0	2723.007
2.5	2726.526
5.0	2740.064
7.5	2687.808
10.0	2635.551
12.5	2601.977
15.0	2498.007
17.5	2405.137
20.0	2329.867
22.5	2254.054
25.0	2160.643
27.5	1996.564
30.0	1705.229
32.5	1386.548
35.0	1067.325
37.5	767.868
40.0	503.879
42.5	306.497
45.0	166.787
47.5	73.104
50.0	36.011
52.5	28.159
55.0	22.473
57.5	18.682
60.0	15.704
62.5	13.267
65.0	11.372
67.5	9.476
70.0	7.852
72.5	6.498
75.0	5.415
77.5	4.332
80.0	3.249
82.5	2.166
85.0	1.354
87.5	0.542
90.0	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	960.18	N.A.	34.50
0-30	1927.68	N.A.	69.20
0-40	2592.24	N.A.	93.10
0-60	2766.51	N.A.	99.30
0-80	2783.59	N.A.	99.90
0-90	2785.14	N.A.	100.00
10-90	2527.85	N.A.	90.80
20-40	1632.06	N.A.	58.60
20-50	1785.15	N.A.	64.10
40-70	185.61	N.A.	6.70
60-80	17.09	N.A.	0.60
70-80	5.75	N.A.	0.20
80-90	1.55	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	2785.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	257.29
10-20	702.89
20-30	967.50
30-40	664.56
40-50	153.09
50-60	21.18
60-70	11.34
70-80	5.75
80-90	1.55
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	88	86	85	89	87	85	83	84	82	81	81	79	78	78	77	76	75
2	86	82	79	76	84	81	78	75	78	76	74	76	74	72	74	72	71	69
3	82	76	72	69	80	75	72	69	73	70	68	71	69	67	70	67	65	64
4	77	71	67	63	76	70	66	63	69	65	62	67	64	62	66	63	61	60
5	73	67	62	58	72	66	61	58	64	61	58	63	60	57	62	59	57	55
6	70	62	58	54	68	62	57	54	61	56	53	59	56	53	58	55	53	52
7	66	59	54	50	65	58	53	50	57	53	50	56	52	49	55	52	49	48
8	63	55	50	47	62	55	50	47	54	49	46	53	49	46	52	49	46	45
9	60	52	47	44	59	51	47	44	51	46	43	50	46	43	49	46	43	42
10	57	49	44	41	56	48	44	41	48	44	41	47	43	41	47	43	41	39

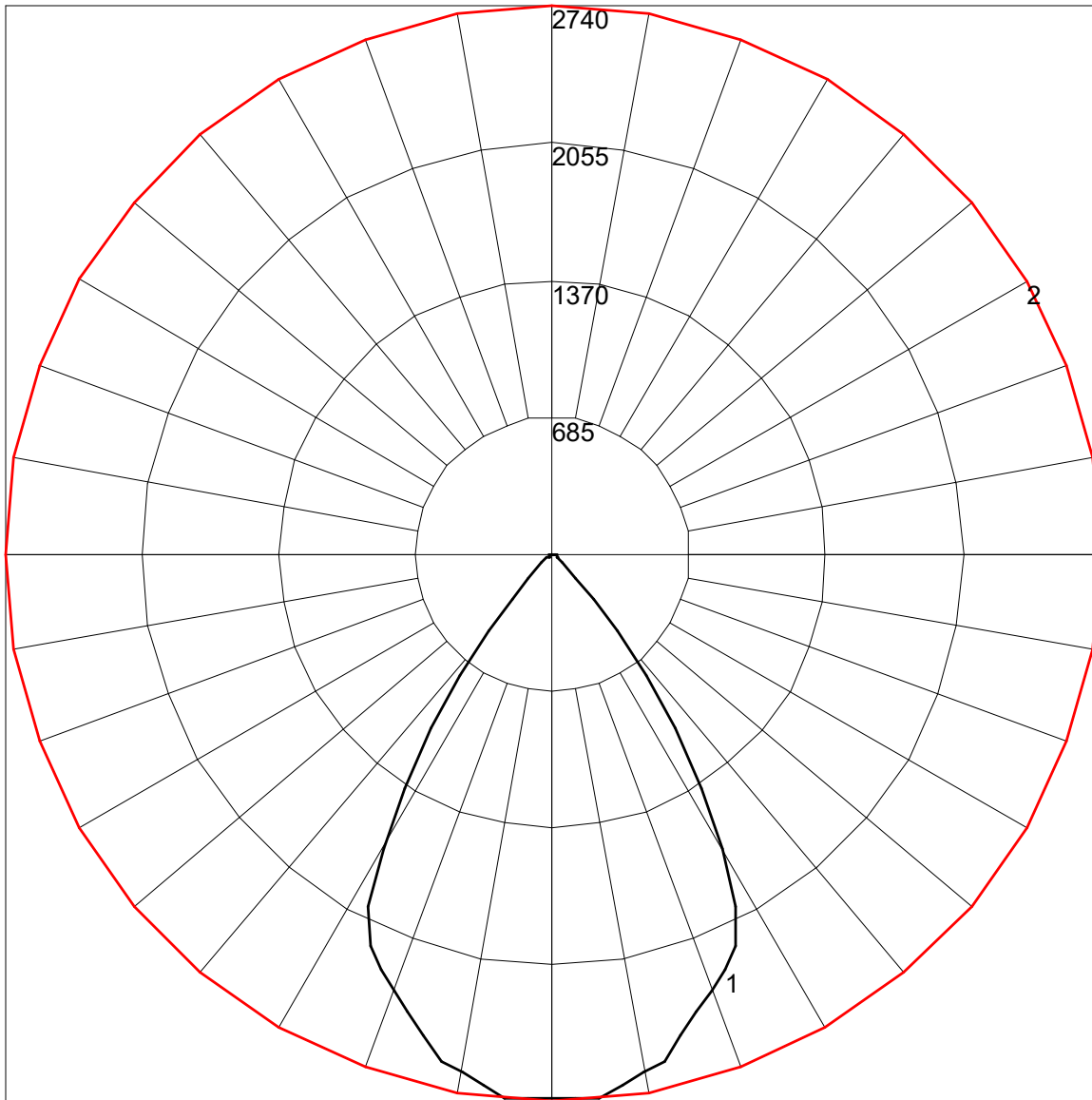
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UGR TABLE - CORRECTED

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	4.5	4.3	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	4.4	4.8
	8H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.4	4.8
	12H	4.3	4.3	4.3	4.4	4.8	4.3	4.3	4.3	4.4	4.8
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	4.5	4.3	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	4.6	5.0
	6H	4.3	4.5	4.4	4.9	5.4	4.3	4.5	4.4	4.9	5.4
	8H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.0	5.5
	12H	4.3	4.5	4.6	5.0	5.5	4.3	4.5	4.6	5.0	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 = 2740.064 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.)