



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 8DR-L40-930-OW-CS-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB]  
[ISSUE DATE] 10-04-2022  
[MANUFAC] H.E. WILLIAMS  
[LUMCAT] 8DR-L40-930-OW-CS-DIM-UNV  
[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH  
[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) ELECTRONIC DRIVER  
[LAMPCAT] X1-3000K LED  
[LAMP] (1) 3000K LED MODULE  
[BALLASTCAT]  
[BALLAST]  
[OTHER]  
[ 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	3164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	46.4
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	7313	7313	7313
55	1215	1215	1215
65	834	834	834
75	649	649	649
85	482	482	482

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CANDELA TABULATION

	<u>0</u>
0.0	3093.570
2.5	3097.569
5.0	3112.949
7.5	3053.582
10.0	2994.214
12.5	2956.071
15.0	2837.951
17.5	2732.443
20.0	2646.930
22.5	2560.800
25.0	2454.677
27.5	2268.269
30.0	1937.288
32.5	1575.238
35.0	1212.573
37.5	872.364
40.0	572.450
42.5	348.207
45.0	189.484
47.5	83.053
50.0	40.911
52.5	31.991
55.0	25.531
57.5	21.225
60.0	17.841
62.5	15.072
65.0	12.919
67.5	10.766
70.0	8.920
72.5	7.382
75.0	6.152
77.5	4.922
80.0	3.691
82.5	2.461
85.0	1.538
87.5	0.615
90.0	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1090.85	N.A.	34.50
0-30	2190.01	N.A.	69.20
0-40	2945.00	N.A.	93.10
0-60	3142.99	N.A.	99.30
0-80	3162.4	N.A.	99.90
0-90	3164.16	N.A.	100.00
10-90	2871.85	N.A.	90.80
20-40	1854.16	N.A.	58.60
20-50	2028.09	N.A.	64.10
40-70	210.87	N.A.	6.70
60-80	19.41	N.A.	0.60
70-80	6.53	N.A.	0.20
80-90	1.76	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	3164.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	292.31
10-20	798.54
20-30	1099.16
30-40	754.99
40-50	173.93
50-60	24.06
60-70	12.88
70-80	6.53
80-90	1.76
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	62	60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	58	56
9	75	65	59	55	73	64	58	54	63	58	54	62	58	54	61	57	54	53
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	49

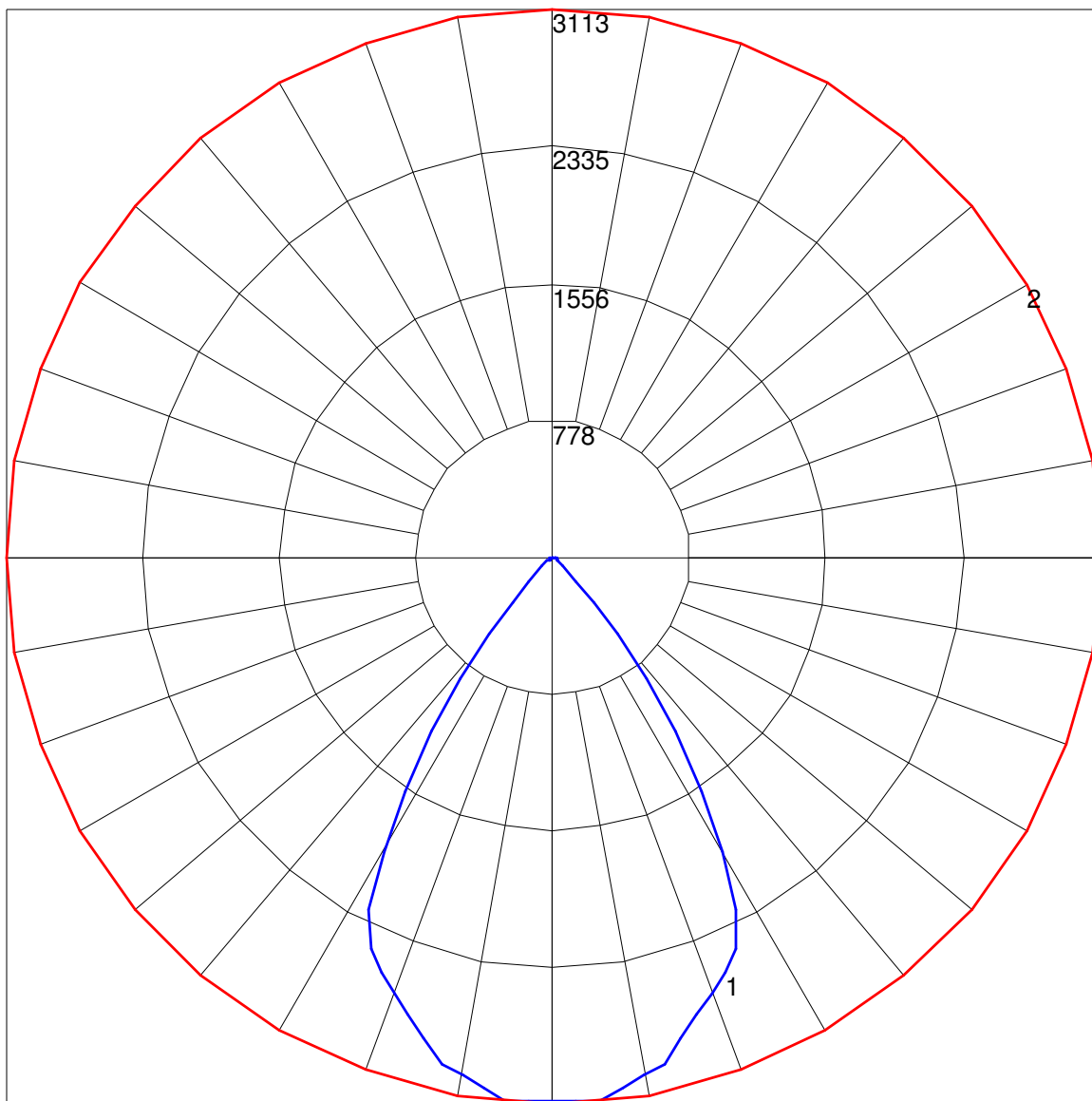
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**UGR TABLE - CORRECTED**

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	4.2	4.0	4.0	4.0	4.0	4.2
	6H	4.0	4.0	4.0	4.1	4.5	4.0	4.0	4.0	4.1	4.5
	8H	4.0	4.0	4.0	4.1	4.5	4.0	4.0	4.0	4.1	4.5
	12H	4.0	4.0	4.0	4.1	4.5	4.0	4.0	4.0	4.1	4.5
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	4.2	4.0	4.0	4.0	4.0	4.2
	4H	4.0	4.0	4.0	4.3	4.7	4.0	4.0	4.0	4.3	4.7
	6H	4.0	4.2	4.1	4.6	5.1	4.0	4.2	4.1	4.6	5.1
	8H	4.0	4.2	4.3	4.7	5.2	4.0	4.2	4.3	4.7	5.2
	12H	4.0	4.2	4.3	4.7	5.2	4.0	4.2	4.3	4.7	5.2
8H	4H	4.0	4.0	4.0	4.3	4.8	4.0	4.0	4.0	4.3	4.8
	6H	4.0	4.3	4.4	4.8	5.3	4.0	4.3	4.4	4.8	5.3
	8H	4.1	4.4	4.6	4.9	5.4	4.1	4.4	4.6	4.9	5.4
	12H	4.2	4.5	4.7	5.0	5.6	4.2	4.5	4.7	5.0	5.6
12H	4H	4.0	4.0	4.0	4.2	4.7	4.0	4.0	4.0	4.2	4.7
	6H	4.0	4.2	4.4	4.7	5.3	4.0	4.2	4.4	4.7	5.3
	8H	4.1	4.4	4.6	4.9	5.5	4.1	4.4	4.6	4.9	5.5

Maximum UGR = 5.6

POLAR GRAPH



Maximum Candela = 3112.949 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)