



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L20-930-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-L20-930-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.
[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	1588
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	24.3
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L20-930-OW-CS-DIM-UNV_.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3670	3670	3670
55	610	610	610
65	419	419	419
75	326	326	326
85	242	242	242

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L20-930-OW-CS-DIM-UNV_.IES

CANDELA TABULATION

	<u>0</u>
0.0	1552.652
2.5	1554.659
5.0	1562.378
7.5	1532.582
10.0	1502.785
12.5	1483.641
15.0	1424.358
17.5	1371.403
20.0	1328.484
22.5	1285.256
25.0	1231.994
27.5	1138.436
30.0	972.318
32.5	790.607
35.0	608.586
37.5	437.836
40.0	287.311
42.5	174.764
45.0	95.101
47.5	41.684
50.0	20.533
52.5	16.056
55.0	12.814
57.5	10.653
60.0	8.954
62.5	7.565
65.0	6.484
67.5	5.403
70.0	4.477
72.5	3.705
75.0	3.088
77.5	2.470
80.0	1.853
82.5	1.235
85.0	0.772
87.5	0.309
90.0	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L20-930-OW-CS-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	547.49	N.A.	34.50
0-30	1099.16	N.A.	69.20
0-40	1478.09	N.A.	93.10
0-60	1577.46	N.A.	99.30
0-80	1587.2	N.A.	99.90
0-90	1588.08	N.A.	100.00
10-90	1441.37	N.A.	90.80
20-40	930.60	N.A.	58.60
20-50	1017.89	N.A.	64.10
40-70	105.83	N.A.	6.70
60-80	9.74	N.A.	0.60
70-80	3.28	N.A.	0.20
80-90	0.88	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	1588.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.71
10-20	400.78
20-30	551.67
30-40	378.93
40-50	87.29
50-60	12.07
60-70	6.47
70-80	3.28
80-90	0.88
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L20-930-OW-CS-DIM-UNV_.IES

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

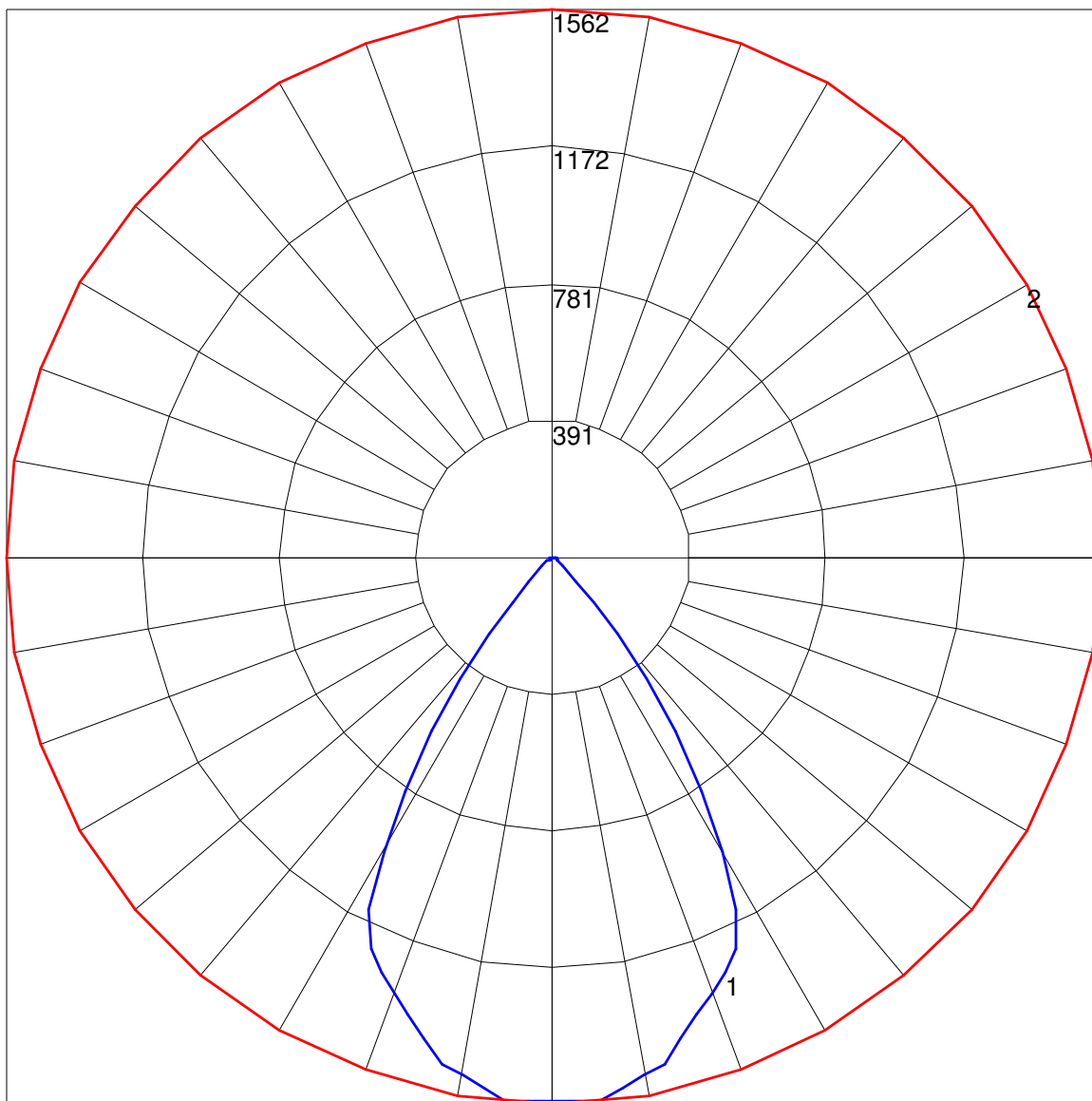
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 8DR-L20-930-OW-CS-DIM-UNV_.IES

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	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	3H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	4H	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.6	1.8
	6H	1.6	1.6	1.6	1.7	2.1	1.6	1.6	1.6	1.7	2.1
	8H	1.6	1.6	1.6	1.7	2.1	1.6	1.6	1.6	1.7	2.1
	12H	1.6	1.6	1.6	1.7	2.1	1.6	1.6	1.6	1.7	2.1
4H	2H	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	3H	1.6	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.6	1.8
	4H	1.6	1.6	1.6	1.9	2.3	1.6	1.6	1.6	1.9	2.3
	6H	1.6	1.8	1.7	2.2	2.7	1.6	1.8	1.7	2.2	2.7
	8H	1.6	1.8	1.9	2.3	2.8	1.6	1.8	1.9	2.3	2.8
	12H	1.6	1.8	1.9	2.3	2.8	1.6	1.8	1.9	2.3	2.8
8H	4H	1.6	1.6	1.6	1.9	2.4	1.6	1.6	1.6	1.9	2.4
	6H	1.6	1.9	2.0	2.4	2.9	1.6	1.9	2.0	2.4	2.9
	8H	1.7	2.0	2.2	2.5	3.0	1.7	2.0	2.2	2.5	3.0
	12H	1.8	2.1	2.3	2.6	3.2	1.8	2.1	2.3	2.6	3.2
12H	4H	1.6	1.6	1.6	1.8	2.3	1.6	1.6	1.6	1.8	2.3
	6H	1.6	1.8	2.1	2.3	2.9	1.6	1.8	2.1	2.3	2.9
	8H	1.7	2.0	2.2	2.5	3.1	1.7	2.0	2.2	2.5	3.1

Maximum UGR = 3.2

POLAR GRAPH



Maximum Candela = 1562.378 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.)