



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L20-930-EM10W-OW-CS-DIM-UNV\_(EMER MODE).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-EM10W-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	650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	10
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-EM10W-OW-CS-DIM-UNV\_(EMER MODE).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1502	1502	1502
55	250	250	250
65	171	171	171
75	133	133	133
85	99	99	99

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 8DR-L20-930-EM10W-OW-CS-DIM-UNV\_(EMER MODE).IES****CANDELA TABULATION**

	<u>0</u>
<b>0.0</b>	635.531
<b>2.5</b>	636.352
<b>5.0</b>	639.512
<b>7.5</b>	627.316
<b>10.0</b>	615.120
<b>12.5</b>	607.284
<b>15.0</b>	583.018
<b>17.5</b>	561.342
<b>20.0</b>	543.775
<b>22.5</b>	526.081
<b>25.0</b>	504.279
<b>27.5</b>	465.984
<b>30.0</b>	397.989
<b>32.5</b>	323.611
<b>35.0</b>	249.106
<b>37.5</b>	179.215
<b>40.0</b>	117.602
<b>42.5</b>	71.534
<b>45.0</b>	38.927
<b>47.5</b>	17.062
<b>50.0</b>	8.405
<b>52.5</b>	6.572
<b>55.0</b>	5.245
<b>57.5</b>	4.360
<b>60.0</b>	3.665
<b>62.5</b>	3.096
<b>65.0</b>	2.654
<b>67.5</b>	2.212
<b>70.0</b>	1.833
<b>72.5</b>	1.517
<b>75.0</b>	1.264
<b>77.5</b>	1.011
<b>80.0</b>	0.758
<b>82.5</b>	0.505
<b>85.0</b>	0.316
<b>87.5</b>	0.126
<b>90.0</b>	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	224.10	N.A.	34.50
0-30	449.91	N.A.	69.20
0-40	605.01	N.A.	93.10
0-60	645.68	N.A.	99.30
0-80	649.67	N.A.	99.90
0-90	650.03	N.A.	100.00
10-90	589.98	N.A.	90.80
20-40	380.91	N.A.	58.60
20-50	416.64	N.A.	64.10
40-70	43.32	N.A.	6.70
60-80	3.99	N.A.	0.60
70-80	1.34	N.A.	0.20
80-90	0.36	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	650.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	60.05
10-20	164.05
20-30	225.81
30-40	155.10
40-50	35.73
50-60	4.94
60-70	2.65
70-80	1.34
80-90	0.36
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

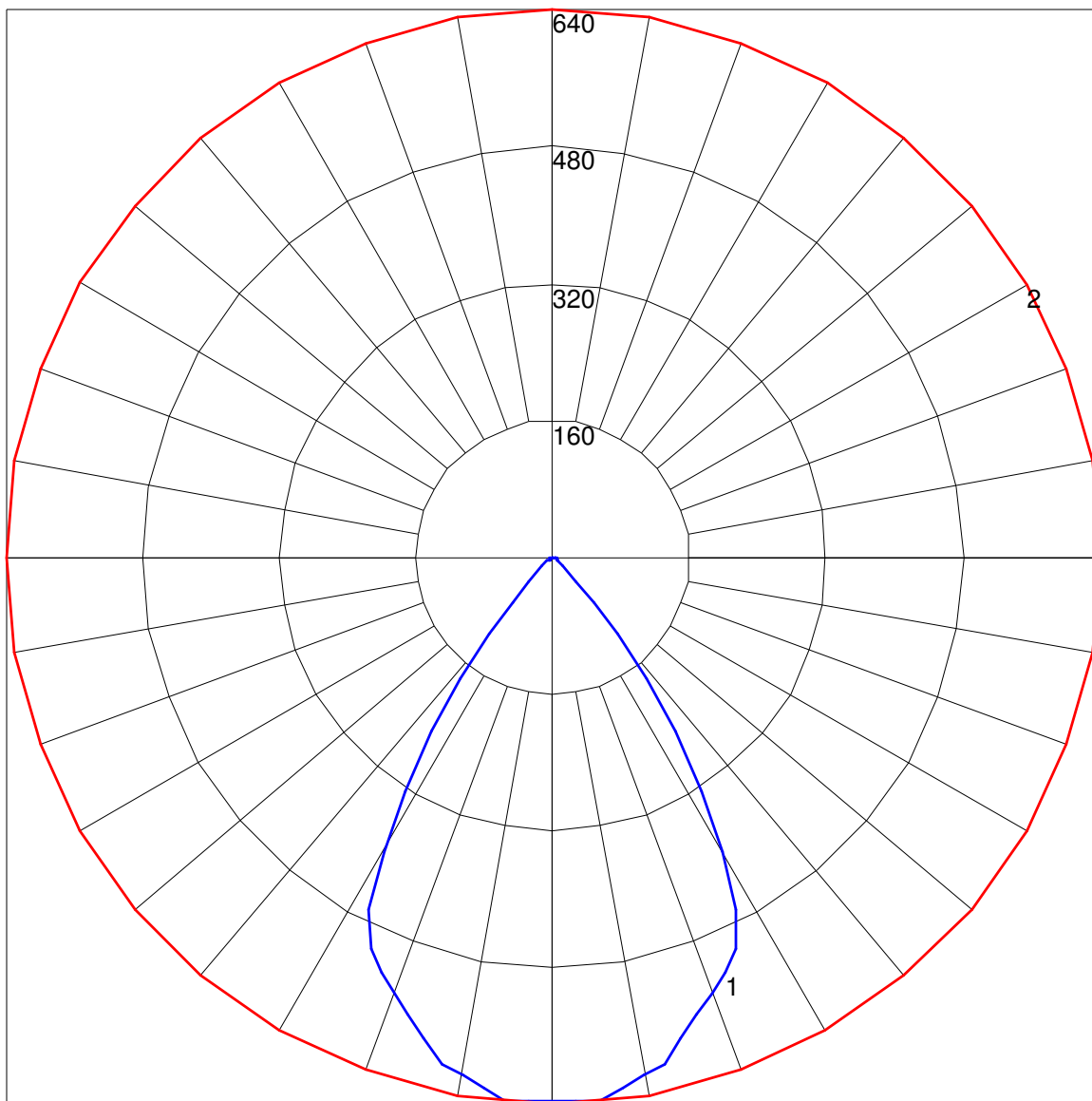
X=2H	Y=2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

### UGR Viewed Endwise

4H	2H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8H	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	12H	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1
12H	4H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	6H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	8H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Maximum UGR = 0.1

POLAR GRAPH



Maximum Candela = 639.512 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.)