



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6PS-L20-840-EM10W-DIM-UNV-LW-OF-WH-AD\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20372.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 01-05-2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] GEN7 V18 LED 6" TALL HEATSINK 6" SQ FORMED HOUSING DOWNLIGHT  
 [MORE] NO OPTIC & 6" CAST WHITE FLUSH SHALLOW TRIM  
 [MORE] w/SOLITE LENS ADVANCE # XI050C140V054DSM5 @ 1125mA  
 [LUMCAT] 6PS-L20-840-EM10W-DIM-UNV-LW-OF-WH-AD  
 [LAMPCAT] BXRE-40E4000  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Office, Direct, Downlight  
 [\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11139	14065	11033
55	5192	8138	4997
65	3382	4087	3400
75	2416	2589	2445
85	1452	1281	1452

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	385.933	385.933	385.933	385.933	385.933
<b>5</b>	385.933	384.721	383.856	382.818	382.645
<b>10</b>	380.914	379.010	378.837	377.626	377.626
<b>15</b>	372.088	370.703	369.319	369.838	370.357
<b>20</b>	359.627	357.897	358.070	359.108	359.973
<b>25</b>	345.955	345.263	342.494	344.571	345.263
<b>30</b>	331.245	328.476	325.707	327.437	329.687
<b>35</b>	307.016	305.631	306.670	305.977	299.574
<b>40</b>	255.096	262.192	278.633	264.615	253.712
<b>45</b>	183.102	199.024	231.214	205.600	181.371
<b>50</b>	107.646	124.433	170.641	138.970	106.607
<b>55</b>	69.226	75.802	108.511	79.956	66.630
<b>60</b>	46.208	50.708	62.995	52.438	46.554
<b>65</b>	33.228	34.959	40.151	35.824	33.401
<b>70</b>	23.364	23.883	25.613	24.402	23.018
<b>75</b>	14.537	14.710	15.576	15.576	14.710
<b>80</b>	7.961	7.961	8.307	8.134	7.961
<b>85</b>	2.942	2.596	2.596	2.423	2.942
<b>90</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 6PS-L20-840-EM10W-DIM-UNV-LW-OF-WH-AD\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	140.99	N.A.	18.10
0-30	299.85	N.A.	38.40
0-40	488.28	N.A.	62.60
0-60	722.83	N.A.	92.70
0-80	776.30	N.A.	99.50
0-90	779.93	N.A.	100.00
10-90	743.45	N.A.	95.30
20-40	347.29	N.A.	44.50
20-50	502.89	N.A.	64.50
40-70	271.50	N.A.	34.80
60-80	53.47	N.A.	6.90
70-80	16.51	N.A.	2.10
80-90	3.64	N.A.	0.50
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	779.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	36.48
10-20	104.51
20-30	158.86
30-40	188.43
40-50	155.59
50-60	78.95
60-70	36.96
70-80	16.51
80-90	3.64
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72	78	74	71	69
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	44	38	34	33

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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	15.4	16.8	15.8	17.1	17.5	15.7	17.1	16.0	17.4	17.7
	3H	16.4	17.6	16.8	17.9	18.3	16.6	17.8	16.9	18.1	18.5
	4H	16.7	17.8	17.1	18.2	18.6	16.9	18.0	17.3	18.4	18.7
	6H	16.9	17.9	17.3	18.3	18.7	17.0	18.1	17.4	18.5	18.9
	8H	16.9	17.9	17.3	18.3	18.7	17.1	18.1	17.5	18.5	18.9
	12H	16.9	17.9	17.3	18.3	18.7	17.1	18.0	17.5	18.4	18.9

### UGR Viewed Endwise

4H	2H	15.9	17.0	16.3	17.4	17.8	16.1	17.2	16.5	17.6	18.0
	3H	17.0	17.9	17.4	18.3	18.7	17.1	18.1	17.6	18.5	18.9
	4H	17.4	18.2	17.8	18.6	19.1	17.6	18.4	18.0	18.8	19.2
	6H	17.6	18.4	18.1	18.8	19.3	17.8	18.5	18.3	19.0	19.4
	8H	17.7	18.4	18.2	18.8	19.3	17.9	18.5	18.3	19.0	19.5
	12H	17.7	18.3	18.2	18.8	19.3	17.9	18.5	18.4	19.0	19.4

8H	4H	17.5	18.2	18.0	18.6	19.1	17.6	18.3	18.1	18.8	19.2
	6H	17.8	18.4	18.3	18.9	19.4	18.0	18.5	18.5	19.0	19.5
	8H	17.9	18.4	18.4	18.9	19.4	18.1	18.6	18.6	19.1	19.6
	12H	18.0	18.4	18.5	18.9	19.5	18.1	18.6	18.6	19.1	19.6

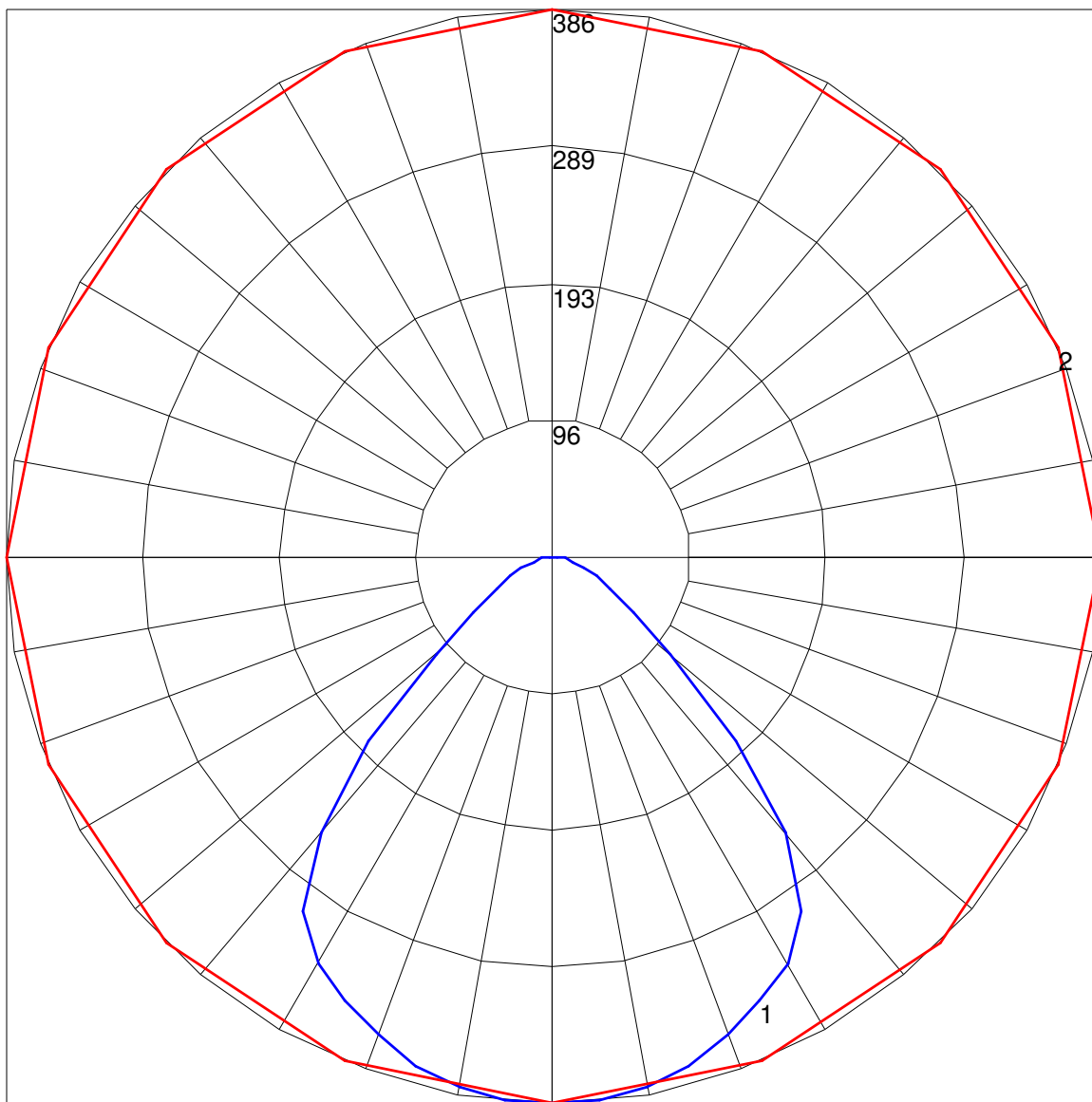
12H	4H	17.5	18.1	18.0	18.6	19.0	17.6	18.2	18.1	18.7	19.2
	6H	17.8	18.3	18.3	18.8	19.3	18.0	18.5	18.5	18.9	19.5
	8H	18.0	18.4	18.5	18.9	19.5	18.1	18.5	18.6	19.0	19.6

Maximum UGR = 19.6

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## POLAR GRAPH



Maximum Candela = 385.933 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)