



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : S10-O-L3-830-FTG-BLK-PHOTOPIA.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TESTLAB] Photopia 2015.2.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)  
 [ISSUE DATE] 09-07-2016  
 [TEST DATE] Wed Sep 07 12:00:49 2016  
 [TEST] 1  
 [MANUFAC] WILLIAMS OUTDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] S10-O-L3-830-FTG-BLK  
 [LUMINAIRE] 10 INCH RECTANGULAR STEP LIGHT  
 [LAMP] LED 18W Fortimo DLM-1100 Lamp  
 [LAMPCAT] FORTIMO DLM-1100

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	10.7
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.31 ft
Luminous Width (90-270)	0.83 ft
Luminous Height	0.42 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2195	713	2
55	4111	1819	3
65	6422	3239	10
75	8153	4858	19
85	9574	6187	32

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>5</b>	0.02	0.01	0.04	0.04	0.00	0.01	0.00	0.00	0.00
<b>10</b>	0.85	0.44	0.10	0.02	0.00	0.00	0.02	0.04	0.00
<b>15</b>	1.37	0.75	0.56	0.14	0.00	0.02	0.00	0.00	0.00
<b>20</b>	3.59	2.73	1.43	0.16	0.00	0.02	0.09	0.05	0.00
<b>25</b>	7.69	6.58	2.49	0.68	0.01	0.02	0.04	0.01	0.00
<b>30</b>	14.62	10.42	5.00	0.81	0.00	0.01	0.03	0.00	0.01
<b>35</b>	27.97	21.81	10.94	1.81	0.01	0.00	0.00	0.01	0.01
<b>40</b>	48.74	40.53	16.49	2.98	0.01	0.02	0.00	0.00	0.00
<b>45</b>	87.71	66.12	27.95	4.80	0.04	0.01	0.01	0.00	0.00
<b>50</b>	126.55	102.36	47.17	7.51	0.07	0.02	0.04	0.00	0.00
<b>55</b>	166.23	141.55	72.00	13.17	0.07	0.01	0.00	0.00	0.00
<b>60</b>	210.47	180.97	97.41	17.87	0.19	0.04	0.02	0.00	0.00
<b>65</b>	254.92	220.17	125.48	26.62	0.22	0.00	0.14	0.02	0.00
<b>70</b>	291.54	248.23	153.66	35.83	0.20	0.10	0.32	0.00	0.00
<b>75</b>	307.72	279.60	178.41	42.77	0.33	0.20	0.62	0.00	0.00
<b>80</b>	323.62	295.63	194.11	48.41	0.45	0.23	0.38	0.00	0.00
<b>85</b>	331.67	306.29	207.86	54.16	0.45	0.20	0.27	0.00	0.00
<b>90</b>	335.67	311.47	211.35	54.58	0.48	0.08	0.15	0.00	0.00
<b>95</b>	331.18	307.43	205.31	54.61	0.45	0.02	0.03	0.00	0.00
<b>100</b>	328.02	299.42	196.48	49.53	0.56	0.01	0.02	0.00	0.00
<b>105</b>	316.16	281.64	179.93	45.49	0.44	0.07	0.00	0.00	0.00
<b>110</b>	285.93	253.63	159.62	36.12	0.26	0.05	0.02	0.00	0.00
<b>115</b>	254.73	220.69	133.51	27.72	0.18	0.05	0.02	0.00	0.00
<b>120</b>	215.81	181.82	104.81	21.06	0.12	0.01	0.00	0.00	0.00
<b>125</b>	173.31	149.51	75.35	14.17	0.10	0.01	0.00	0.00	0.00
<b>130</b>	133.42	105.71	49.86	9.38	0.06	0.01	0.01	0.00	0.00
<b>135</b>	96.71	73.67	32.51	5.99	0.02	0.01	0.00	0.00	0.00
<b>140</b>	58.14	44.80	20.28	3.74	0.01	0.00	0.00	0.00	0.00
<b>145</b>	32.84	27.18	12.58	2.14	0.02	0.01	0.00	0.00	0.00
<b>150</b>	19.41	15.71	7.42	0.90	0.00	0.00	0.00	0.00	0.00
<b>155</b>	11.49	9.06	3.82	0.64	0.00	0.00	0.04	0.03	0.07
<b>160</b>	5.75	4.07	1.65	0.24	0.00	0.01	0.01	0.00	0.00
<b>165</b>	2.40	1.37	0.39	0.10	0.14	0.00	0.00	0.00	0.00
<b>170</b>	0.63	0.26	0.06	0.00	0.09	0.00	0.00	0.01	0.00
<b>175</b>	0.02	0.05	0.00	0.00	0.18	0.00	0.04	0.01	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.12	N.A.	0.00
0-30	0.97	N.A.	0.20
0-40	5.07	N.A.	0.80
0-60	54.48	N.A.	8.90
0-80	202.09	N.A.	33.10
0-90	301.56	N.A.	49.40
10-90	301.55	N.A.	49.40
20-40	4.95	N.A.	0.80
20-50	19.38	N.A.	3.20
40-70	111.13	N.A.	18.20
60-80	147.61	N.A.	24.20
70-80	85.89	N.A.	14.10
80-90	99.47	N.A.	16.30
90-110	186.79	N.A.	30.60
90-120	249.79	N.A.	40.90
90-130	286.37	N.A.	46.90
90-150	307.21	N.A.	50.40
90-180	308.58	N.A.	50.60
110-180	121.79	N.A.	20.00
0-180	610.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.01
10-20	0.11
20-30	0.85
30-40	4.10
40-50	14.43
50-60	34.98
60-70	61.72
70-80	85.89
80-90	99.47
90-100	99.66
100-110	87.12
110-120	63.00
120-130	36.58
130-140	15.89
140-150	4.95
150-160	1.21
160-170	0.15
170-180	0.01

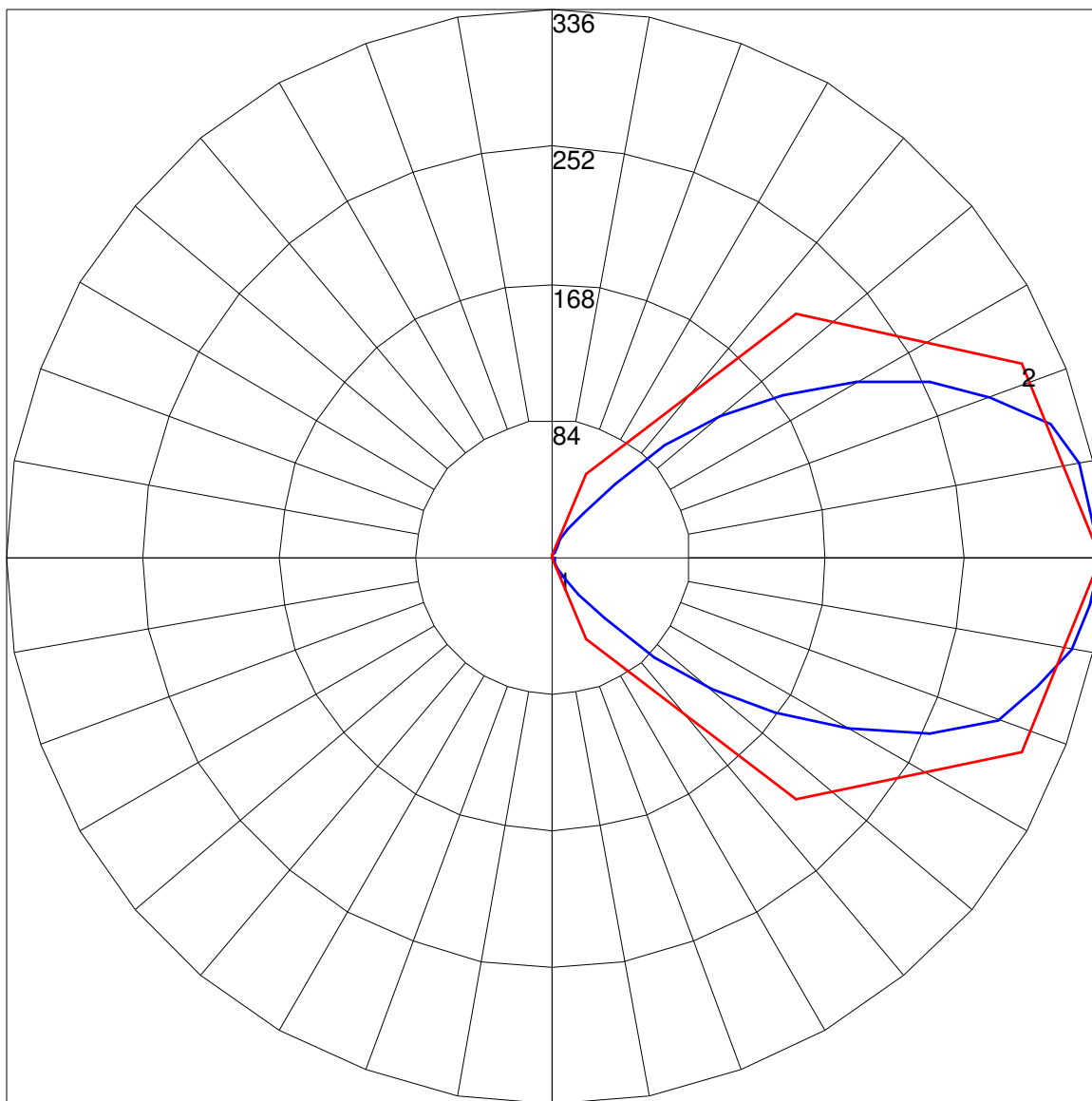
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	89	81	74	68	81	74	68	62	60	55	51	48	44	40	36	33	30	24
2	78	67	57	49	70	60	52	45	48	42	36	37	32	28	27	23	20	14
3	70	56	46	38	63	51	42	34	40	33	27	31	25	20	22	17	14	9
4	63	48	38	30	56	44	34	27	35	27	21	26	20	15	18	14	10	6
5	57	42	32	24	51	38	29	22	30	23	17	23	17	12	16	11	8	4
6	52	37	27	20	47	34	25	18	27	19	14	20	14	10	14	10	6	3
7	48	33	24	17	43	30	22	15	24	17	12	18	13	8	13	8	5	2
8	44	30	21	15	40	27	19	13	22	15	10	16	11	7	12	7	4	1
9	41	27	19	13	37	25	17	11	20	13	9	15	10	6	11	6	3	1
10	38	25	17	11	35	22	15	10	18	12	8	14	9	5	10	6	3	1

POLAR GRAPH



Maximum Candela = 335.67 Located At Horizontal Angle = 0, Vertical Angle = 90  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)