



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] Photopia 2015.2.0 see: www.ltioptics.com/ies
[ISSUEDATE] 09-07-2016
[TESTDATE] Wed Sep 07 13:16:02 2016
[TEST] 1
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] S10-O-L3-830-OPAL-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	433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
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	2334	1399	3
55	2991	1922	8
65	3762	2367	30
75	4620	2880	76
85	5259	3358	107

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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>
0	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
5	0.09	0.04	0.02	0.07	0.00	0.00	0.08	0.00	0.00
10	0.95	0.79	0.19	0.01	0.02	0.03	0.02	0.03	0.05
15	6.69	5.19	1.20	0.16	0.03	0.01	0.00	0.00	0.00
20	18.12	14.08	5.36	0.47	0.02	0.03	0.02	0.04	0.00
25	30.36	27.42	12.76	1.37	0.04	0.01	0.03	0.09	0.03
30	48.30	39.23	23.12	3.70	0.01	0.02	0.03	0.00	0.00
35	63.97	55.23	33.29	6.35	0.01	0.01	0.00	0.02	0.00
40	79.46	71.63	43.28	10.26	0.03	0.02	0.01	0.00	0.00
45	93.26	83.37	54.88	15.54	0.07	0.02	0.01	0.00	0.01
50	107.83	96.95	65.19	20.68	0.12	0.03	0.05	0.01	0.00
55	120.95	111.73	76.07	25.61	0.18	0.05	0.08	0.00	0.00
60	134.90	122.39	86.08	32.11	0.46	0.08	0.09	0.00	0.01
65	149.34	135.17	91.71	36.29	0.63	0.13	0.23	0.01	0.00
70	161.59	146.12	101.38	40.44	0.76	0.13	0.54	0.04	0.00
75	174.37	152.34	105.79	45.67	1.35	0.37	0.42	0.03	0.00
80	174.54	158.06	113.04	48.72	1.30	0.36	0.74	0.02	0.00
85	182.19	165.19	112.81	50.27	1.51	0.32	0.42	0.03	0.00
90	180.96	164.77	118.74	51.16	1.76	0.13	0.15	0.02	0.00
95	180.95	163.87	116.15	49.30	1.42	0.02	0.04	0.00	0.00
100	180.84	159.65	112.71	49.05	1.28	0.02	0.02	0.00	0.00
105	170.20	153.41	107.66	45.87	1.34	0.03	0.05	0.00	0.00
110	164.05	145.41	103.92	41.78	1.01	0.09	0.07	0.00	0.00
115	152.75	136.78	94.71	36.74	0.84	0.06	0.05	0.01	0.00
120	140.10	124.42	85.66	32.56	0.55	0.02	0.03	0.00	0.00
125	127.97	111.82	76.85	26.11	0.27	0.01	0.01	0.00	0.01
130	111.30	99.96	66.04	20.67	0.12	0.00	0.01	0.00	0.00
135	94.80	86.37	56.15	16.13	0.07	0.00	0.00	0.00	0.01
140	82.49	70.04	43.85	10.71	0.03	0.01	0.01	0.00	0.00
145	62.77	57.32	33.85	6.69	0.05	0.01	0.00	0.00	0.00
150	48.42	41.66	22.82	3.91	0.01	0.02	0.01	0.00	0.00
155	31.25	27.54	14.07	1.48	0.02	0.01	0.04	0.13	0.00
160	18.52	14.16	6.06	0.45	0.00	0.01	0.00	0.05	0.00
165	8.08	5.53	1.10	0.17	0.05	0.00	0.03	0.00	0.10
170	0.79	0.58	0.38	0.15	0.09	0.03	0.01	0.00	0.01
175	0.15	0.07	0.46	0.00	0.01	0.00	0.00	0.00	0.07
180	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	0.50	N.A.	0.10
0-30	3.95	N.A.	0.90
0-40	14.04	N.A.	3.20
0-60	64.28	N.A.	14.80
0-80	158.18	N.A.	36.50
0-90	215.47	N.A.	49.70
10-90	215.46	N.A.	49.70
20-40	13.54	N.A.	3.10
20-50	33.05	N.A.	7.60
40-70	92.36	N.A.	21.30
60-80	93.91	N.A.	21.70
70-80	51.79	N.A.	12.00
80-90	57.28	N.A.	13.20
90-110	109.45	N.A.	25.30
90-120	152.25	N.A.	35.10
90-130	183.54	N.A.	42.40
90-150	213.72	N.A.	49.30
90-180	217.81	N.A.	50.30
110-180	108.37	N.A.	25.00
0-180	433.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.01
10-20	0.49
20-30	3.46
30-40	10.08
40-50	19.51
50-60	30.73
60-70	42.12
70-80	51.79
80-90	57.28
90-100	57.38
100-110	52.06
110-120	42.81
120-130	31.29
130-140	19.94
140-150	10.24
150-160	3.56
160-170	0.52
170-180	0.01

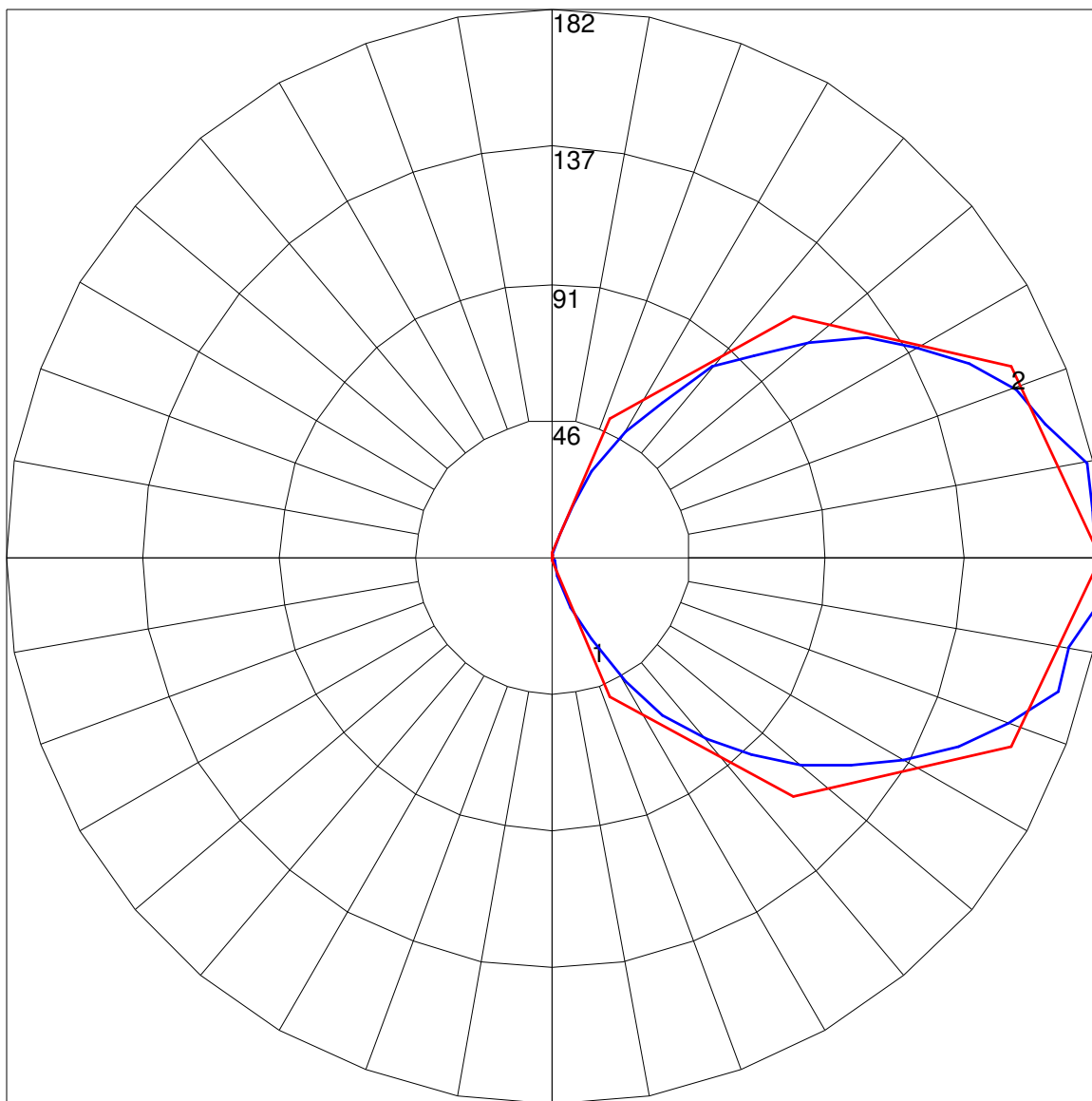
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	50
1	91	84	77	71	83	76	71	65	63	58	54	50	47	44	39	36	34	28
2	80	69	60	53	72	63	55	48	51	45	40	40	35	31	30	26	23	18
3	72	59	49	41	65	53	44	37	43	36	30	33	28	24	25	20	17	12
4	64	51	41	33	58	46	37	30	37	30	24	29	23	18	21	16	13	9
5	59	44	34	27	53	40	31	24	32	25	20	25	19	15	18	14	10	7
6	54	39	29	22	48	35	27	20	29	21	16	22	16	12	16	12	8	5
7	49	35	26	19	44	32	23	17	25	19	14	20	14	10	14	10	7	4
8	45	31	22	16	41	28	20	15	23	16	12	18	12	9	13	9	6	3
9	42	28	20	14	38	26	18	13	21	14	10	16	11	7	12	8	5	2
10	39	26	18	12	35	23	16	11	19	13	9	15	10	6	11	7	4	2

POLAR GRAPH



Maximum Candela = 182.19 Located At Horizontal Angle = 0, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)