

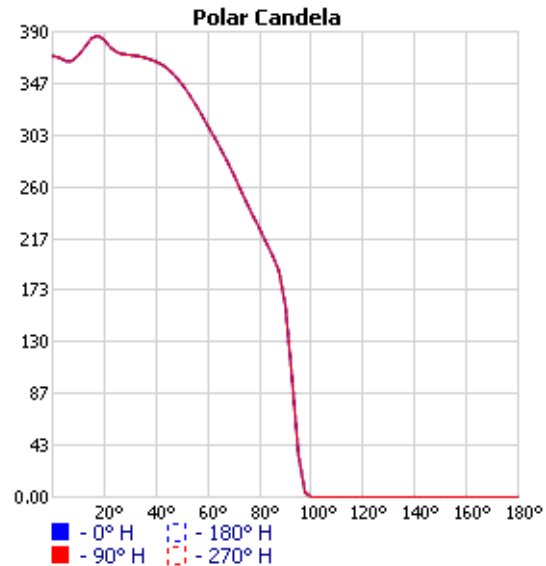
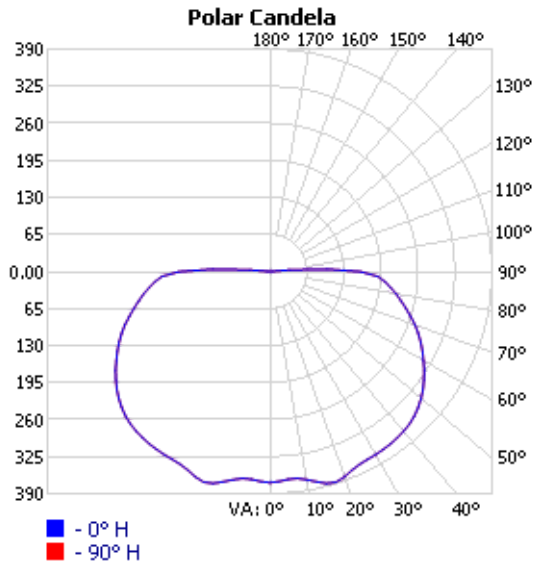
OUTDOOR PHOTOMETRIC REPORT

CATALOG: 23/16A



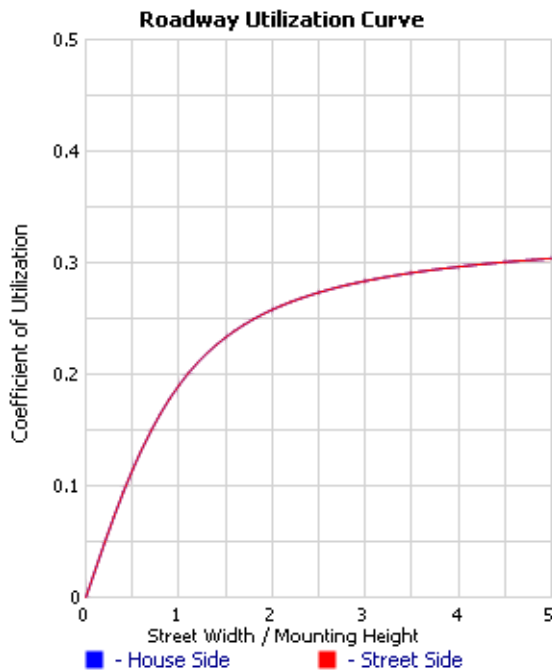
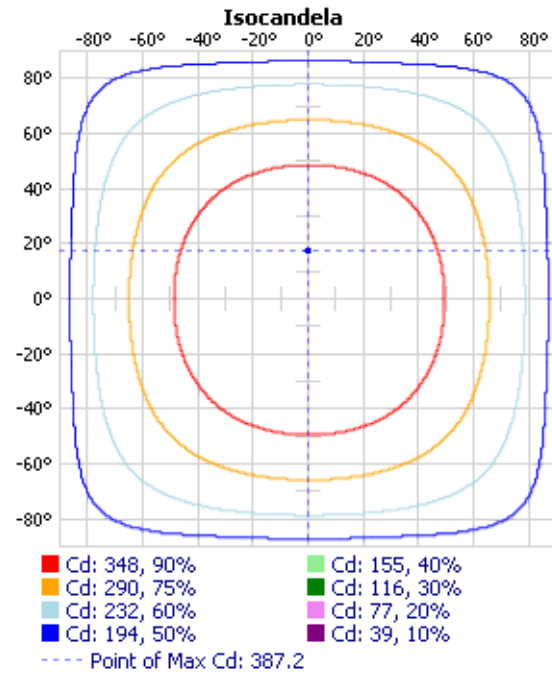
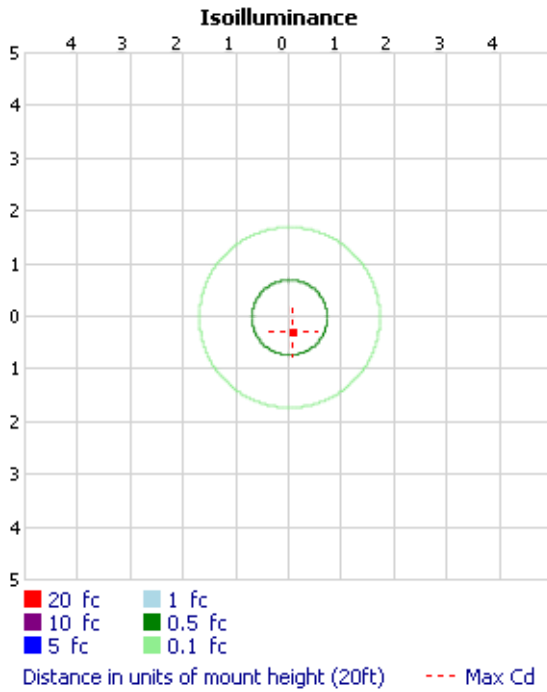
Manufacturer: PRIMELITE MANUFACTURING
Catalog: 23/16A
Description: WITH WHITE INTERIOR AND NO LENS
Lamp Catalog: 150W/A21. LUMEN RATING = 2850 LMS.
Lamp: ONE GE 150 WATT INCANDESCENT LAMP
Lamp Output: 1 lamp, rated Lumens/lamp: 2850
Input Wattage: 0
Luminous Opening: Circular (Dia: 0.96")
Nema Type:
Max Cd: 387.2 at Horizontal: 0°, Vertical: 17.5°
CUTOFF CLASS: Noncutoff
Roadway Class: Type VS
Efficiency: 68.4%

No
Photo
Available



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Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	316.6	11.1%	16.3%
0-40	548.1	19.2%	28.1%
0-60	1,120.0	39.3%	57.5%
60-90	768.0	26.9%	39.4%
70-100	539.3	18.9%	27.7%
90-120	60.3	2.1%	3.1%
0-90	1,888.0	66.2%	96.9%
90-180	60.3	2.1%	3.1%
0-180	1,948.4	68.4%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	35.1	1.8%	90-100	60.3	3.1%
10-20	108.4	5.6%	100-110	0.000	0%
20-30	173.1	8.9%	110-120	0.000	0%
30-40	231.5	11.9%	120-130	0.000	0%
40-50	276.5	14.2%	130-140	0.000	0%
50-60	295.4	15.2%	140-150	0.000	0%
60-70	289.1	14.8%	150-160	0.000	0%
70-80	261.3	13.4%	160-170	0.000	0%
80-90	217.7	11.2%	170-180	0.000	0%

Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	159.9	
Max Cd, 80 to <90 Deg:	225.2	
	Lumens	% Lamp
Downward Street Side:	944.0	33.1%
Downward House Side:	944.0	33.1%
Downward Total:	1,888.1	66.2%
Upward Street Side:	30.1	1.1%
Upward House Side:	30.1	1.1%
Upward Total:	60.2	2.1%
Total Lumens:	1,948.3	68.4%

LCS Table

BUG Rating	B1 - U3 - G2	
Forward Light	Lumens	Lumens %
Low(0-30):	158.3	5.6%
Medium(30-60):	401.7	14.1%
High(60-80):	275.2	9.7%
Very High(80-90):	108.9	3.8%
Back Light		
Low(0-30):	158.3	5.6%
Medium(30-60):	401.7	14.1%
High(60-80):	275.2	9.7%
Very High(80-90):	108.9	3.8%
Uplight		
Low(90-100):	60.2	2.1%
High(100-180):	0.000	0%
Trapped Light:	901.7	31.6%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	66.2%	1,887.5	n/a	90
Beam (50%):	64%	1,824.0	173.4	172.9
Total:	66.2%	1,887.5		

Illuminance at a Distance

Height(ft)	Center Beam	Beam Spread(ft)		Field Spread(ft)	
	Footcandle	Horizontal	Vertical	Horizontal	Vertical
4.00	23.13 fc	139.5	129.6		8.0
8.00	5.78 fc	279.0	259.2		16.0
12.00	2.57 fc	418.5	388.9		24.0
16.00	1.45 fc	558.0	518.5		32.0
20.00	0.93 fc	697.4	648.1		40.0
		Beam Angle		Field Angle	
		173.4°	172.9°	n/a	90.0°

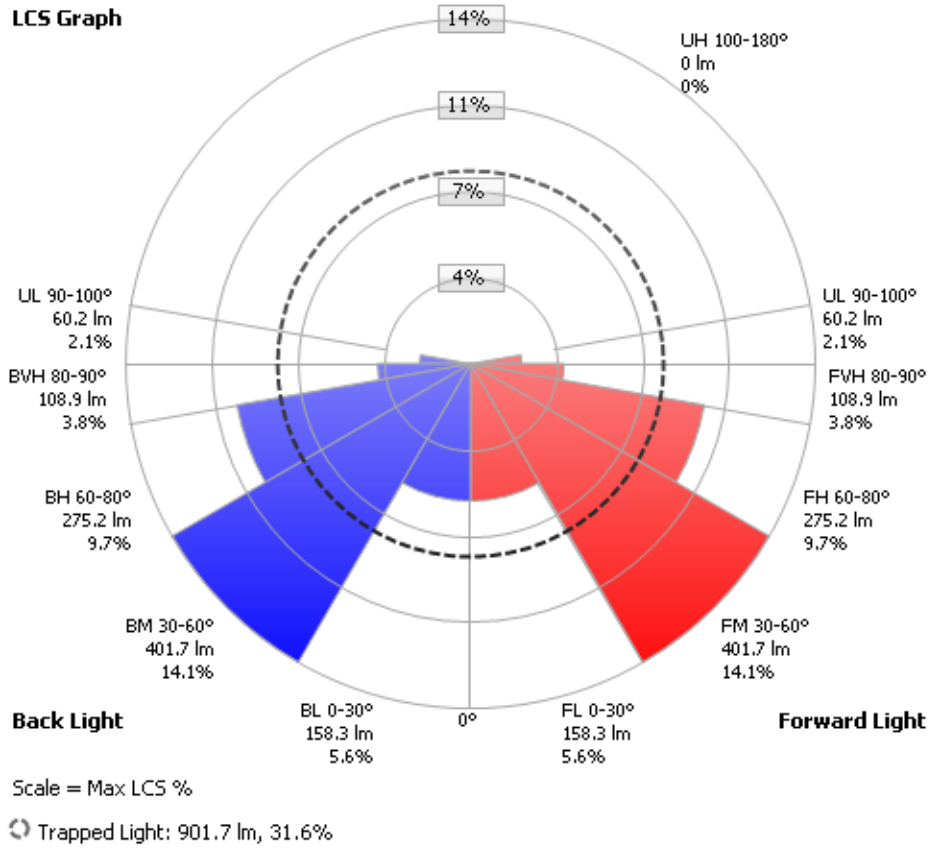
Average Luminance (Cd/m2)

	0	40	80	120	160	200	240	280	320	360
0	792322	792322	792322	792322	792322	792322	792322	792322	792322	792322
45	477328	477328	477328	477328	477328	477328	477328	477328	477328	477328
55	437144	437144	437144	437144	437144	437144	437144	437144	437144	437144
65	396345	396345	396345	396345	396345	396345	396345	396345	396345	396345
75	354870	354870	354870	354870	354870	354870	354870	354870	354870	354870
85	320055	320055	320055	320055	320055	320055	320055	320055	320055	320055

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	
RCR: 0	.81	.81	.81	.81	.79	.79	.79	.66	.75	.75	.75	.71	.71	.71	.71	.68	.68	.68	.68	.66	
1	.70	.66	.61	.57	.68	.64	.60	.49	.60	.57	.54	.57	.54	.52	.52	.54	.52	.50	.50	.48	
2	.62	.55	.49	.44	.60	.54	.48	.39	.51	.46	.42	.48	.44	.40	.40	.45	.42	.39	.37	.37	
3	.56	.47	.40	.35	.54	.46	.40	.31	.43	.38	.33	.41	.36	.33	.33	.39	.35	.32	.30	.30	
4	.51	.41	.34	.29	.49	.40	.33	.26	.38	.32	.28	.36	.31	.27	.27	.34	.30	.26	.24	.24	
5	.46	.36	.29	.24	.45	.35	.29	.22	.34	.28	.23	.32	.27	.23	.23	.30	.26	.22	.21	.21	
6	.43	.32	.25	.20	.41	.32	.25	.19	.30	.24	.20	.29	.23	.19	.19	.27	.23	.19	.17	.17	
7	.39	.29	.22	.18	.38	.28	.22	.17	.27	.21	.17	.26	.21	.17	.17	.25	.20	.17	.15	.15	
8	.37	.26	.20	.16	.35	.26	.20	.15	.25	.19	.15	.24	.19	.15	.15	.23	.18	.15	.13	.13	
9	.34	.24	.18	.14	.33	.24	.18	.13	.23	.17	.14	.22	.17	.13	.13	.21	.16	.13	.12	.12	
10	.32	.22	.16	.12	.31	.22	.16	.12	.21	.16	.12	.20	.15	.12	.12	.19	.15	.12	.10	.10	



UGR Table (Corrected)

Ceiling Cavity Reflectance:		70%	70%	50%	50%	30%	70%	70%	50%	50%	30%
Wall Cavity Reflectance:		50%	30%	50%	30%	30%	50%	30%	50%	30%	30%
Floor Cavity Reflectance:		20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Room Dimensions		Viewed Crosswise					Viewed Endwise				
Room Width	Room Length										
2H	2H	32.1	33.9	32.5	34.2	34.6	32.1	33.9	32.5	34.2	34.6
	3H	34.5	36.1	34.9	36.5	36.9	34.5	36.1	34.9	36.5	36.9
	4H	35.5	37.2	36.0	37.5	38.0	35.5	37.2	36.0	37.5	38.0
	6H	36.6	38.1	37.0	38.5	39.0	36.6	38.1	37.0	38.5	39.0
	8H	37.1	38.6	37.6	39.0	39.4	37.1	38.6	37.6	39.0	39.4
	12H	37.6	39.0	38.0	39.4	39.9	37.6	39.0	38.0	39.4	39.9
4H	2H	32.7	34.3	33.2	34.7	35.2	32.7	34.3	33.2	34.7	35.2
	3H	35.4	36.8	35.8	37.2	37.6	35.4	36.8	35.8	37.2	37.6
	4H	36.6	37.9	37.1	38.3	38.8	36.6	37.9	37.1	38.3	38.8
	6H	37.8	39.0	38.3	39.5	40.0	37.8	39.0	38.3	39.5	40.0
	8H	38.4	39.5	38.9	40.0	40.5	38.4	39.5	38.9	40.0	40.5
	12H	39.0	40.0	39.5	40.5	41.0	39.0	40.0	39.5	40.5	41.0
8H	4H	37.1	38.2	37.5	38.6	39.1	37.1	38.2	37.5	38.6	39.1
	6H	38.5	39.4	39.0	39.9	40.5	38.5	39.4	39.0	39.9	40.5
	8H	39.2	40.1	39.7	40.6	41.1	39.2	40.1	39.7	40.6	41.1
	12H	39.9	40.7	40.5	41.3	41.8	39.9	40.7	40.5	41.3	41.8
12H	4H	37.2	38.2	37.7	38.7	39.2	37.2	38.2	37.7	38.7	39.2
	6H	38.6	39.5	39.2	40.0	40.6	38.6	39.5	39.2	40.0	40.6
	8H	39.4	40.2	40.0	40.7	41.3	39.4	40.2	40.0	40.7	41.3

Max UGR: 41.8

Candela Table - Type C

	0	20	40	60	80	90	110	130	150	170	180	200	220	240	260	280	300	320	340	360	
0	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
5	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366	366
10	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371
15	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385	385
20	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383	383
25	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373	373
30	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371
35	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369	369
40	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365	365
45	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358	358
50	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346
55	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
60	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311	311
65	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292	292
70	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271	271
75	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247
80	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225
85	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203
90	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
95	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0