

Photometrics Pro

Luminaire Photometric Report

Filename: 120W Street Light Update 1_180 Lens

Luminaire: LAMP LENTH:160 LAMP DIAMETER:12 LAMP WEIGHT:0.5
LAMP HIGH:160 LAMP WIDTH:160

Luminaire Cat: led

Lamp:

Lamp Output: 1 lamp(s), rated lamp lumens: 9281.956

Max Candela: 7,383.3 at Horizontal: 100, Vertical: 62

Input Wattage: 113

Luminous Opening: Point

Photometry : Type C

CIE Class: Direct

Cutoff Class: Full Cutoff

Nema Type: 7 X 6

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	101.4%	9,408.9	153.1	115.9
Beam (50%):	41.8%	3,881.3	38.4	78
Total:	107.3%	9,961.4		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1,953.4	21%	19.5%
0-40	3,499.0	37.7%	34.9%
0-60	7,707.3	83%	76.9%
60-90	2,318.0	25%	23.1%
0-90	10,025.4	108%	100%
90-180	0	0%	0%
0-180	10,025.4	108%	100%
Total Efficiency: 108%			

Lumens Per Zone

Zone	Lumens	% Total Zone	Lumens	% Total
0-10	222.9	2.2%	90-100	0 0%
10-20	642.1	6.4%	100-110	0 0%
20-30	1,088.5	10.9%	110-120	0 0%
30-40	1,545.5	15.4%	120-130	0 0%
40-50	1,915.6	19.1%	130-140	0 0%
50-60	2,292.7	22.9%	140-150	0 0%
60-70	1,850.5	18.5%	150-160	0 0%
70-80	441.5	4.4%	160-170	0 0%
80-90	26.0	0.3%	170-180	0 0%

Roadway Summary

Cutoff Classification:	FULL CUTOFF
Distribution:	TYPE I, SHORT
Max Cd, 90 Deg Vert:	0
Max Cd, 80 to <90 Deg:	233.7
Lumens	% Lamp
Downward Street Side:	2,361.9 25.4%
Downward House Side:	2,577.1 27.8%
Downward Total:	4,939.0 53.2%
Upward Street Side:	0 0%
Upward House Side:	0 0%
Upward Total:	0 0%
Total Lumens:	4,939.0 53.2%

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	10	0	50	30	20	10	0	10	0	
RCR: 0		1.29	1.29	1.29	1.29	1.26	1.26	1.26	1.08	1.20	1.20	1.20	1.15	1.15	1.15	1.10	1.10	1.10	1.08			
1		1.18	1.12	1.08	1.04	1.15	1.10	1.06	.91	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.91			
2		1.06	.97	.89	.83	1.03	.95	.88	.75	.91	.85	.80	.87	.82	.78	.84	.80	.76	.74			
3		.96	.84	.74	.67	.93	.82	.73	.62	.79	.71	.65	.75	.69	.64	.73	.67	.63	.60			
4		.87	.73	.63	.55	.84	.71	.62	.52	.68	.60	.54	.66	.59	.53	.63	.57	.52	.50			
5		.79	.64	.54	.46	.76	.63	.53	.44	.60	.52	.45	.58	.51	.45	.56	.49	.44	.42			
6		.72	.57	.46	.39	.70	.56	.46	.38	.54	.45	.38	.52	.44	.38	.50	.43	.38	.35			
7		.66	.51	.41	.34	.64	.50	.40	.33	.48	.39	.33	.47	.39	.33	.45	.38	.33	.30			
8		.61	.46	.36	.29	.60	.45	.36	.29	.44	.35	.29	.42	.34	.29	.41	.34	.29	.26			
9		.57	.42	.32	.26	.55	.41	.32	.25	.40	.31	.26	.38	.31	.26	.37	.30	.25	.23			
10		.53	.38	.29	.23	.52	.38	.29	.23	.36	.28	.23	.35	.28	.23	.34	.28	.23	.21			

Illuminance at a Distance		
	Center Beam FC	Beam Width
8.3ft	34.89 fc	13.5ft 5.8ft
16.7ft	8.72 fc	27.0ft 11.6ft
25.0ft	3.88 fc	40.5ft 17.4ft
33.3ft	2.18 fc	54.0ft 23.2ft
41.7ft	1.40 fc	67.5ft 29.0ft
50.0ft	0.97 fc	81.0ft 34.8ft

■ Vert. Spread: 78.0° ■ Horiz. Spread: 38.4°





