

ECO Spot™ Photometrics																				
Model Gobo Size	Color Temp.	Lens	Beam Mult.	Effective lm	CD	Value	PROJECTION DISTANCE IN FEET (ft)													
							3	6	9	12	15	20	24	30	36	42	64	88	112	136
ES-A10 D-Size	5000k +/- 500	70mm (28°)	0,46	574	3.456	Size (ft)	1,4	2,8	4,1	5,5	6,9	9,2	11	14	17					
						Brightn.(fc)	384	96	43	24	15	9	6	4	3					
ES-LED10 E-Size ID=25mm	5000k +/- 500k	140mm (10°)	0,18	194	7.632	Size (ft)			1,6	2,2	2,7	3,6	4,3	5,4	6,5	7,6				
		Brightn.(fc)			94	53	34	19	13	8	6	4								
		100mm (15°)	0,26	191	3.600	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4					
		Brightn.(fc)			100	44	25	16	9	6	4	3								
		70mm (20°)	0,35	263	2.736	Size (ft)	1,1	2,1	3,2	4,2	5,3	7,0	8,4	10,5						
Brightn.(fc)			304	76	34	19	12	7	5	3										
		50mm (25°)	0,45	252	1.584	Size (ft)	1,4	2,7	4,1	5,4	6,8	9,0	11							
Brightn.(fc)			176	44	20	11	7	4	3											
		28mm (45°)	0,80	145	288	Size (ft)	2,4	4,8	7,2	9,6	*Max. Gobo Image Size for this lens = 23mm									
Brightn.(fc)			32	8	4	2														
ES-C25 ES-C25E ES-C25+ E-Size ID=25mm	5500k +/- 500k	140mm (10°)	0,18	842	33.120	Size (ft)			1,6	2,2	2,7	3,6	4,3	5,4	6,5	7,6	11,5	15,8	20,2	24,5
		Brightn.(fc)			409	230	147	83	58	37	26	19	8	4	3	2				
		100mm (15°)	0,26	993	18.720	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	11	17	23	29	
		Brightn.(fc)			520	231	130	83	47	33	21	14	11	5	2	1				
		70mm (20°)	0,35	831	8.640	Size (ft)	1,1	2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31		
Brightn.(fc)			960	240	107	60	38	22	15	10	7	5	2	1						
		50mm (25°)	0,45	1030	6.480	Size (ft)	1,4	2,7	4,1	5,4	6,8	9,0	11	14	16	19	29			
Brightn.(fc)			720	180	80	45	29	16	11	7	5	4	2							
		28mm* (45°)	0,80	1013	2.016	Size (ft)	2,4	4,8	7,2	9,6	12,0	16,0	19,2	24,0	28,8	*Max. Gobo Image Size for this lens = 23mm				
Brightn.(fc)			224	56	25	14	9	5	4	2	2									
ES-C40 ES-C40E ES-C40+ E-Size ID=25mm	6000k +/- 500k	140mm (10°)	0,18	1025	40.320	Size (ft)			1,6	2,2	2,7	3,6	4,3	5,4	6,5	7,6	11,5	15,8	20,2	
		Brightn.(fc)			498	280	179	101	70	45	31	23	10	5	3					
		100mm (15°)	0,26	1834	34.560	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	11	17	23	29	
		Brightn.(fc)			960	427	240	154	86	60	38	27	20	8	4	3				
		70mm (20°)	0,35	1662	17.280	Size (ft)	1,1	2,1	3,2	4,2	5,3	7,0	8,4	10,5	12,6	14,7	22,4	30,8		
Brightn.(fc)			1920	480	213	120	77	43	30	19	13	10	4	2						
		50mm (25°)	0,45	1946	12.240	Size (ft)	1,4	2,7	4,1	5,4	6,8	9,0	11	14	16	19	29	40		
Brightn.(fc)			1360	340	151	85	54	31	21	14	9	7	3	2						
		28mm* (45°)	0,80	2315	4.608	Size (ft)	2,4	4,8	7,2	9,6	12,0	16,0	19,2	24,0	28,8	33,6	*Max. Gobo Image Size for this lens = 23mm			
Brightn.(fc)			512	128	57	32	20	12	8	5	4	3								
ES-C60 ES-C60E ES-C60+ ES-C60PCE E-Size ID=25mm	6000k +/- 500k	140mm (10°)	0,18	1483	58.320	Size (ft)			1,6	2,2	2,7	3,6	4,3	5,4	6,5	7,6	11,5	15,8	20,2	24,5
		Brightn.(fc)			720	405	259	146	101	65	45	33	14	8	5	3				
		100mm (15°)	0,26	2560	48.240	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	10,9	16,6	22,9	29,1	35,4
		Brightn.(fc)			1340	596	335	214	121	84	54	37	27	12	6	4	3			
		70mm (20°)	0,35	2008	20.880	Size (ft)		2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31		
Brightn.(fc)			580	258	145	93	52	36	23	16	12	5	3							
		50mm (25°)	0,45	2289	14.400	Size (ft)		2,7	4,1	5,4	6,8	9,0	11	14	16	19	29			
Brightn.(fc)			400	178	100	64	36	25	16	11	8	4								
		28mm* (45°)	0,80	2460	4.896	Size (ft)		4,8	7,2	9,6	12,0	16,0	19,2	24,0	28,8	33,6	*Max. Gobo Image Size for this lens = 23mm			
Brightn.(fc)			136	60	34	22	12	9	5	4	3									
ES-C90-SO ES-C90E-SO ES-C90PCE-SO E-Size ID=25mm	6000k +/- 500k	140mm (10°)	0,18	2124	83.520	Size (ft)			1,6	2,2	2,7	3,6	4,3	5,4	6,5	7,6	11,5	15,8	20,2	24,5
		Brightn.(fc)			1031	580	371	209	145	93	64	47	20	11	7	5				
		100mm (15°)	0,26	4432	83.520	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	10,9	16,6	22,9	29,1	35,4
		Brightn.(fc)			2320	1031	580	371	209	145	93	64	47	20	11	7	5			
		70mm (20°)	0,35	4431	46.080	Size (ft)		2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31		
Brightn.(fc)			1280	569	320	205	115	80	51	36	26	11	6							
		50mm (25°)	0,45	4624	29.088	Size (ft)		2,7	4,1	5,4	6,8	9,0	11	14	16	19	29			
Brightn.(fc)			808	359	202	129	73	51	32	22	16	7								
		28mm* (45°)	0,80	5426	10.800	Size (ft)		4,8	7,2	9,6	12,0	16,0	19,2	24,0	28,8	33,6	*Max. Gobo Image Size for this lens = 23mm			
Brightn.(fc)			300	133	75	48	27	19	12	8	6									

Model Gobo Size	Color Temp.	Lens	Beam Mult.	Effective lm	CD	Value	PROJECTION DISTANCE IN FEET (ft)																		
							3	6	9	12	15	20	24	30	36	42	64	88	112	136	200	300			
ES-B90 ES-B90E ES-B90C ES-B90CE ES-B90PCE M-Size ID=48mm	6000k +/- 500k	200mm (15°)	0,25	6217	126.720	Size (ft)			2,3	3,0	3,8	5,0	6,0	7,5	9,0	10,5	16,0	22,0	28,0	34,0	50,0				
		Brightn.(fc)							1564	880	563	317	220	141	98	72	31	16	10	7	3				
		140mm (20°)	0,35	6300	65.520	Size (ft)		2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39	48					
		Brightn.(fc)							1820	809	455	291	164	114	73	51	37	16	8	5	4				
ES-B150 ES-B150E ES-B150C ES-B150CE ES-B150PCE M-Size ID=48mm	6000k +/- 500k	210mm (13°)	0,25	8124	165.600	Size (ft)			2,3	3,0	3,8	5,0	6,0	7,5	9,0	10,5	16,0	22,0	28,0	34,0	50,0	75,0			
		Brightn.(fc)							2044	1150	736	414	288	184	128	94	40	21	13	9	4	2			
		140mm (20°)	0,35	9693	100.800	Size (ft)		2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39	48	70				
		Brightn.(fc)							2800	1244	700	448	252	175	112	78	57	25	13	8	5	3			
ES-B300E ES-B300PCE M-Size ID=48mm	6000k +/- 500k	115mm (25°)	0,42	8845	64.800	Size (ft)		2,5	3,8	5,0	6,3	8,3	10,0	13	15	18	27	37	47	57					
		Brightn.(fc)						1800	800	450	288	162	113	72	50	37	16	8	5	4					
		90mm (30°)	0,55	8206	34.560	Size (ft)		3,3	5,0	6,6	8,3	11,0	13,2	17	20	23	35	48	62						
		Brightn.(fc)						960	427	240	154	86	60	38	27	20	8	4	3						
ES-B300E ES-B300PCE M-Size ID=48mm	6000k +/- 500k	200mm (15°)	0,25	10527	214.560	Size (ft)			2,3	3,0	3,8	5,0	6,0	7,5	9,0	10,5	16,0	22,0	28,0	34,0	50,0	75,0			
		Brightn.(fc)							2649	1490	954	536	373	238	166	122	52	28	17	12	5	2			
		140mm (20°)	0,35	12462	129.600	Size (ft)		2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39	48	70				
		Brightn.(fc)						3600	1600	900	576	324	225	144	100	73	32	17	10	7	3				
ES-B300E ES-B300PCE M-Size ID=48mm	6000k +/- 500k	115mm (25°)	0,42	11400	83.520	Size (ft)		2,5	3,8	5,0	6,3	8,3	10,0	13	15	18	27	37	47	57	83				
		Brightn.(fc)						2320	1031	580	371	209	145	93	64	47	20	11	7	5	2				
		90mm (30°)	0,55	10600	44.640	Size (ft)		3,3	5,0	6,6	8,3	11,0	13,2	17	20	23	35	48	62	75					
		Brightn.(fc)						1240	551	310	198	112	78	50	34	25	11	6	4	2					

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How to Read the Illumination Values

Foot Candles (ft)	For a quick overview, the illumination values in the tables are color coded. There are many factors that determine the visibility of a projection, such as ambient light, color and reflectiveness of the projection surface, competing light, gobo colors, projector color temperature, and other factors. Therefore our recommendations should only be used as guidelines and we cannot guarantee a successful application. If you are unsure, please call us to discuss.
Projection Size Calculation	For the resulting Projection Size at any given Distance, Multiply the number in the "Beam Mult." column with your Projection Distance. Projection Size = Distance x Beam Mult. For the Distance needed to achieve a desired Projection Size, Divide the Projection size by the Beam Multiplier. Distance = Projection Size / Beam Mult.
300+	Extreme brightness for extremely bright environments, i.e. bright areas, additionally flooded with daylight, such as Lobby-, Retail-, Trade Show-, Environment. Outdoors (shady, no direct sunlight).
150-300	Very high brightness for very bright environments, such as light flooded Office-, Lobby-, Retail-, Trade Show-, Environment. Color gobos project in vibrant colors. Outdoors well visible at night with vibrant colors.
45-150	The most common brightness bracket for bright environments, such as Office, Lobby, Retail, Tradeshow. Outdoors extremely bright at night. Color gobos project well.
15-45	Sufficient brightness for environments, such as Bars, Clubs, and intimate Restaurants, Theaters, and dimmed Conference rooms. Outdoors well visible at night. Color gobos should preferably be used with lighter colors and the projection surface should be light and somewhat reflective.
15-2	Only advisable for dark environments and subtle projection of light colored artwork, preferably on light, reflective projection surface. If all conditions are met, the max. listed image distance/size can be doubled in most cases.

Metric Conversions: For Meters multiply feet by .3048. For Lux multiply footcandles by 10.76