

ECO Spot™ Photometrics																							
Model Gobo Size	Color Temp.	Lens	Beam Mult.	Effective Im	CD	D=? 8	Value	PROJECTION DISTANCE IN FEET (ft)															
								3	6	9	12	15	20	24	30	36	42	64	88	112	136	200	300
ES-A10 D-Size	5000k +/- 500	70mm (28°)	0,46	574	3.456	3,7	Size (ft)	1,4	2,8	4,1	5,5	6,9	9,2	11	14	17							
						54	Brightn.(fc)	384	96	43	24	15	9	6	4	3							
ES-LED10 E-Size ID=25mm	5000k +/- 500k	140mm (10°)	0,18	311	12.240	1,4	Size (ft)			1,6	2,2	2,7	3,6	4,3	5,4	6,5	7,6	11,5					
						191	Brightn.(fc)			151	85	54	31	21	14	9	7	3					
		100mm (15°)	0,26	497	9.360	2,1	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	10,9	16,6					
						146	Brightn.(fc)		260	116	65	42	23	16	10	7	5	2					
		70mm (20°)	0,35	485	5.040	2,8	Size (ft)	1,1	2,1	3,2	4,2	5,3	7,0	8,4	10,5	12,6	14,7						
				79	Brightn.(fc)	560	140	62	35	22	13	9	6	4	3								
		50mm (25°)	0,45	595	3.744	3,6	Size (ft)	1,4	2,7	4,1	5,4	6,8	9,0	11	14	16							
				59	Brightn.(fc)	416	104	46	26	17	9	7	4	3									
		28mm (45°)	0,88	788	1.296	7,0	Size (ft)	2,6	5,3	7,9	10,6	13,2	17,6										
				20	Brightn.(fc)	144	36	16	9	6	3												
ES-C25 ES-C25E ES-C25+ E-Size ID=25mm	5500k +/- 500k	140mm (14°)	0,18	1245	48.960	1,4	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		
						765	Brightn.(fc)			604	340	218	122	85	54	38	28	12	6	4	3		
		100mm (21°)	0,26	1910	36.000	2,1	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	11	17	23	29			
						563	Brightn.(fc)		1000	444	250	160	90	63	40	28	20	9	5	3			
		70mm (28°)	0,35	1939	20.160	2,8	Size (ft)	1,1	2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31				
				315	Brightn.(fc)	2240	560	249	140	90	50	35	22	16	11	5	3						
		50mm (35°)	0,45	2289	14.400	3,6	Size (ft)	1,4	2,7	4,1	5,4	6,8	9,0	11	14	16	19	29					
				225	Brightn.(fc)	1600	400	178	100	64	36	25	16	11	8	4							
		28mm* (45°)	0,88	2626	4.320	7,0	Size (ft)	2,6	5,3	7,9	10,6	13,2	17,6	21,1	26,4	31,7							
				68	Brightn.(fc)	480	120	53	30	19	11	8	5	3									
ES-C40 ES-C40E ES-C40+ E-Size ID=25mm	6000k +/- 500k	140mm (10°)	0,18	1648	64.800	1,4	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	36,0	
						1013	Brightn.(fc)			800	450	288	162	113	72	50	37	16	8	5	4	2	
		100mm (15°)	0,26	2254	42.480	2,1	Size (ft)		1,6	2,3	3,1	3,9	5,2	6,2	7,8	9,4	11	17	23	29			
						664	Brightn.(fc)		1180	524	295	189	106	74	47	33	24	10	5	3			
		70mm (20°)	0,35	2354	24.480	2,8	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				
				383	Brightn.(fc)	2720	680	302	170	109	61	43	27	19	14	6	3						
		50mm (25°)	0,45	3090	19.440	3,6	Size (ft)	1,4	2,7	4,1	5,4	6,8	9,0	11	14	16	19	29	40				
				304	Brightn.(fc)	2160	540	240	135	86	49	34	22	15	11	5	3						
		28mm* (45°)	0,88	3501	5.760	7,0	Size (ft)	2,6	5,3	7,9	10,6	13,2	17,6	21,1	26,4	31,7	37,0						
				90	Brightn.(fc)	640	160	71	40	26	14	10	6	4	3								
ES-C60 ES-C60E ES-C60+ ES-C60PCE E-Size ID=25mm	6000k +/- 500k	140mm (10°)	0,18	2381	93.600	1,4	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	36,0	
						1463	Brightn.(fc)			1156	650	416	234	163	104	72	53	23	12	7	5	2	
		100mm (15°)	0,26	3362	63.360	2,1	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		
						990	Brightn.(fc)		1760	782	440	282	158	110	70	49	36	15	8	5	3		
		70mm (20°)	0,35	3739	38.880	2,8	Size (ft)		2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39			
				608	Brightn.(fc)		1080	480	270	173	97	68	43	30	22	9	5	3					
		50mm (25°)	0,45	4807	30.240	3,6	Size (ft)		2,7	4,1	5,4	6,8	9,0	11	14	16	19	29	40	50			
				473	Brightn.(fc)		840	373	210	134	76	53	34	23	17	7	4	2					
		28mm* (45°)	0,88	5952	9.792	7,0	Size (ft)		5,3	7,9	10,6	13,2	17,6	21,1	26,4	31,7	37,0	56,3					
				153	Brightn.(fc)		272	121	68	44	24	17	11	8	6	2							

Model Gobo Size	Color Temp.	Lens	Beam Mult.	Effective Im	CD	D=	Value	PROJECTION DISTANCE IN FEET (ft)																
						8		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	2,0 1980	Size (ft) Brightn.(fc)				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	
		140mm (20°)	0,35	6300	65.520	2,8 1024	Size (ft) Brightn.(fc)			2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39	48	70	
		115mm (25°)	0,42	5700	41.760	3,3 653	Size (ft) Brightn.(fc)			2,5	3,8	5,0	6,3	8,3	10,0	13	15	18	27	37	47			
		90mm (30°)	0,55	4445	18.720	4,4 293	Size (ft) Brightn.(fc)			3,3	5,0	6,6	8,3	11,0	13,2	17	20	23	35	48				
ES-B150 ES-B150E ES-B150C ES-B150CE ES-B150PCE M-Size ID=48mm	6000k +/- 500k	210mm (13°)	0,25	8124	165.600	2,0 2588	Size (ft) Brightn.(fc)			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	
		140mm (20°)	0,35	9693	100.800	2,8 1575	Size (ft) Brightn.(fc)			2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39	48	70	
		115mm (25°)	0,42	8845	64.800	3,3 1013	Size (ft) Brightn.(fc)			2,5	3,8	5,0	6,3	8,3	10,0	13	15	18	27	37	47	57		
		90mm (30°)	0,55	8206	34.560	4,4 540	Size (ft) Brightn.(fc)			3,3	5,0	6,6	8,3	11,0	13,2	17	20	23	35	48	62			
ES-B300E ES-B300PCE M-Size ID=48mm	6000k +/- 500k	200mm (15°)	0,25	10527	214.560	2,0 3353	Size (ft) Brightn.(fc)			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	
		140mm (20°)	0,35	12462	129.600	2,8 2025	Size (ft) Brightn.(fc)			2,1	3,2	4,2	5,3	7,0	8,4	11	13	15	22	31	39	48	70	
		115mm (25°)	0,42	11400	83.520	3,3 1305	Size (ft) Brightn.(fc)			2,5	3,8	5,0	6,3	8,3	10,0	13	15	18	27	37	47	57	83	
		90mm (30°)	0,55	10600	44.640	4,4 698	Size (ft) Brightn.(fc)			3,3	5,0	6,6	8,3	11,0	13,2	17	20	23	35	48	62	75		
Model	Color Temp.	Lens	Beam Mult.	Effective Im	CD	8 D=?	Value	3	6	9	12	15	20	24	30	36	42	64	88	112	136	200	300	

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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