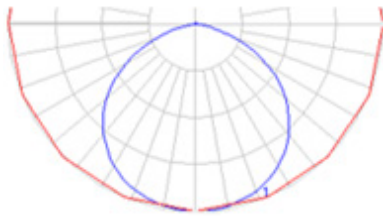


Why Would You Put a Reflector on a Highbay?

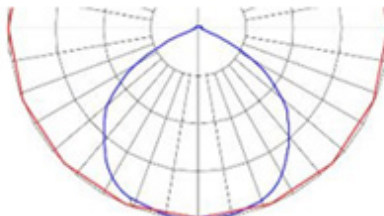
Do you ever wear a baseball cap or sunglasses? Ever use your car visor? These shielding actions reduce glare, or “bad” light that detracts from our ability to see. In a factory, warehouse, or retail facility, highbays are installed to light the space, but if the highbays are unshielded, glare interferes with what we can see. In commercial settings, glare is more than an inconvenience. This low visibility can hurt safety, productivity, and health.

Below are three photometry tests on the same highbay. The first with no reflector, the second with a shallow reflector, and the third with a deeper reflector. The glare reduction, while having little impact on lumen output, is dramatic.

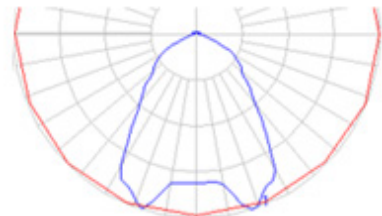
Test 05830
No optics
200W Highbay LED POD



Test 06911
LENA 16 Clear Acrylic
200W Highbay LED POD



Test 05829
S16 Acrylic Clear
200W Highbay LED POD



Using a reflector, not only are high angle candela reduced, but they are also emitted over a much larger surface area, dramatically reducing high angle luminance. If your facility has light-colored ceilings, installing reflectors has the added benefit of producing uplight. Uplight further reduces apparent brightness, eliminates the “cave” effect, and makes the space feel larger.

Test Number	05830	06911		05829	
Optics	None	LENA 16 Clear	% Improvement	S16 Clear	% Improvement
Lumens	26,848	25,603		25,709	
LPW	133	126		127	
Spacing Criteria	1.42	1.4		1.24	
Uplight %	0%	3.20%		3.70%	
Max Candela at					
55 degrees	5247	4952	6%	3778	28%
65 degrees	3225	2255	30%	2257	30%
75 degrees	1175	336	71%	475	60%
Luminance data (cd/sq.m)					
55 degrees	501,104	39,700	92%	25,176	95%
65 degrees	418,058	20,387	95%	16,277	96%
75 degrees	248,748	2,090	99%	3,862	98%

LexaLite® brand glare shields, from the economical and shallow LENA 16™ to the deep, high-performance S16, kill the glare without killing the light. Specify the LENA 16 or S16 by LexaLite on your next highbay project. We can customize the mounting mechanism to fit virtually any highbay.



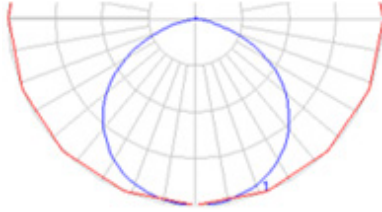
LENA 16



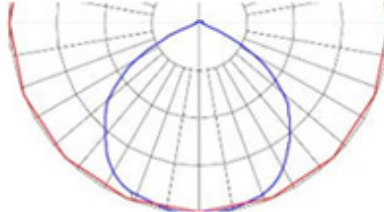
S16

Why Would You Put a Reflector on a Highbay?

Test 05830
No optics
200W Highbay LED POD



Test 06911
LENA 16 Clear Acrylic
200W Highbay LED POD



Test 05829
S16 Acrylic Clear
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