



# **HYLINE 500 SERIES**

## DESIGN GUIDE



From architectural features to splashes of color, multiple factors help create a space's look and feel. But the elements of a space are best enhanced with lighting.

Exterior light adds dimensions, highlights features and elevates a design. The award-winning Hydrel® Hyline 500 Series is a linear accent luminaire that creates layers of light to celebrate your space, from dawn to dusk.

Explore how.





# ART OF LIGHT

Wayfinding and safety are two critical elements for passengers at a train station. By providing a combination of indirect lighting to the canopy architecture with a direct line of light element at the front edge of the canopy, the station obtains an ambient light level that provides safety for moving through the platform and a layer of accent lighting to highlight the canopy's construction features.

The exterior Hycove HLC502 fixtures in static white are mounted to the cross bar between columns. Two continuous runs follow the length of the platform, with each run made up of 53 four-foot fixtures mounted at approximately 9.5 feet above the platform. The exterior Hyline HLF501 fixture in static white with a pixel free direct view lens is mounted to the front edge of the canopy at approximately 16.5 feet above the platform. One continuous run of 53 four-foot fixtures runs the length of the platform.

*See pages 10-11 for IES recommendations.*

Train Platform Calculation Grid

7	8	8	9	10	10	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12
7	8	9	10	11	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13
8	9	10	10	11	12	12	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14
8	9	10	11	11	12	12	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14
8	9	10	11	11	12	12	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14
8	9	9	10	11	11	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13
8	8	9	10	10	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
7	8	8	9	10	10	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12
6	7	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Calculation grids are measured on a 1 ft x 1 ft grid.

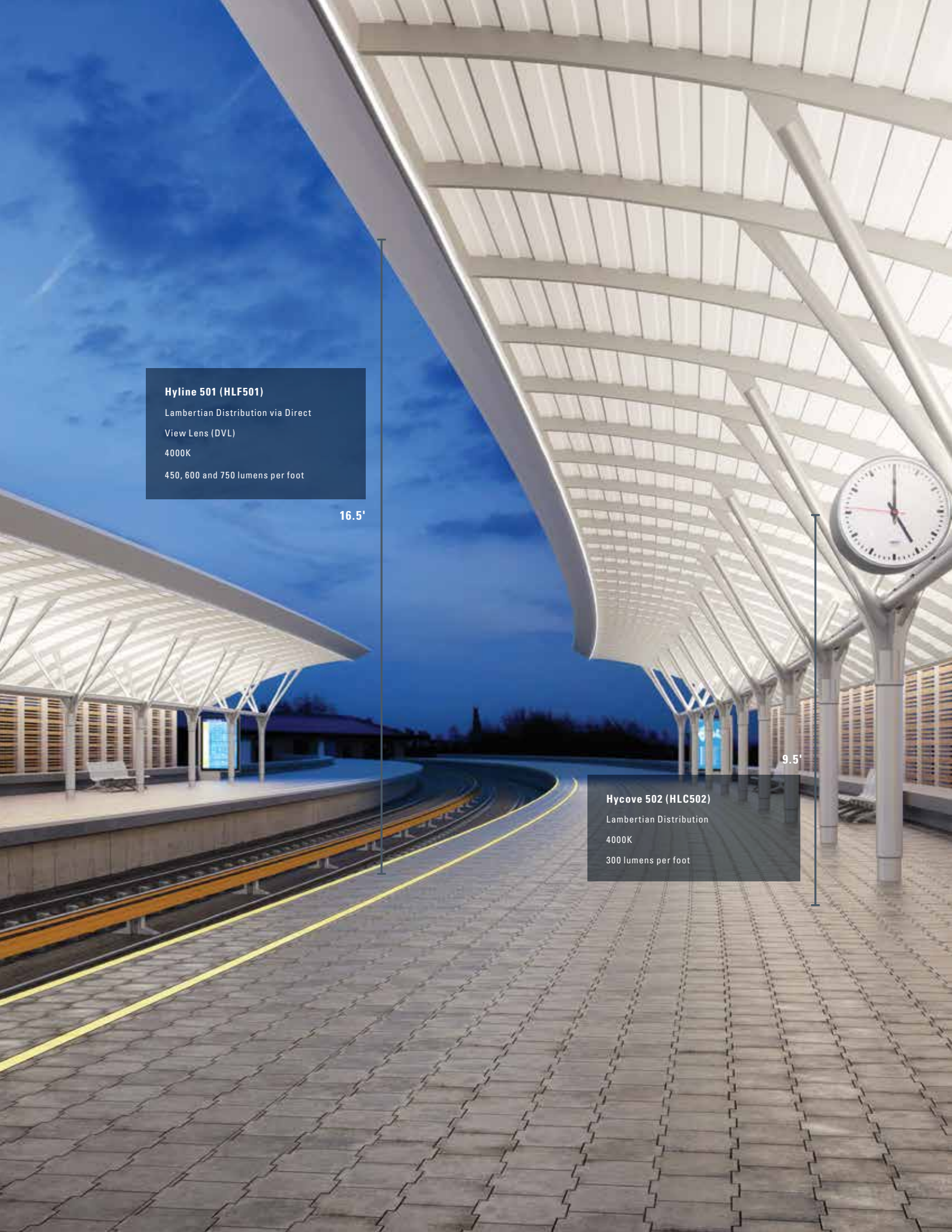


**Hyline 501 (HLF501)**  
Lambertian Distribution via Direct  
View Lens (DVL)  
4000K  
450, 600 and 750 lumens per foot

16.5'

**Hycove 502 (HLC502)**  
Lambertian Distribution  
4000K  
300 lumens per foot

9.5'



# LUXURIOUS LUMINANCE

Accent lighting creates a powerful effect on an exterior space. In the center tower, the 501 Hyline Linear Luminaire is set two inches from the vertical face along the curved cornice, wall and columns. Fixtures are also mounted along the top and base of the baluster, with both fixtures aimed parallel to the dormer at 140 degrees.

The 501 Hyline Linear Luminaire is also mounted as a canopy uplight at the base of each column, set six to eight inches from the outside face of the column. Additional canopy uplights are located 4 inches from the outside edge of the canopy base to illuminate wider canopy.

See pages 10-11 for IES recommendations.

1. Porch Calculation Grid

7	7
5	5
3	3
2	2
1	1
1	1
1	1
1	1
7	31

2. Second/Third Floor Columns Calculation Grid

16	23	24	25	26	25	24
14	31	33	34	34	34	20
11	20	22	22	23	23	18
11	20	22	23	23	23	17
10	22	24	24	24	24	17
10	25	26	27	27	27	17
10	30	31	31	32	32	17
9	38	40	39	41	41	16
7	31	34	32	34	34	15
11	7	7	7	7	7	8
8	7	7	6	6	6	7
8	7	7	7	7	7	7
9	8	8	8	8	8	8
11	10	11	11	11	11	10
16	15	15	15	15	15	14
24	23	24	23	24	24	21

Entry Way

3. Entry Way Calculation Grid

7	7	8	8	8	8	8	7	7	
7	8	9	10	10	10	9	9	8	7
9	11	13	13	13	13	13	11	9	
12	18	21	21	21	21	20	19	15	
17	31	32	31	30	31	33	34	29	
3	10	10	7	7	7	13	11	6	13
19	21	21	21	21	22	19	16	18	22
19	20	20	20	12	22	22	23	22	17
14	17	17	16	10	16	17	16	15	13
9	11	11	11	8	10	11	11	10	10
6	7	8	7	6	6	7	7	7	8
4	5	5	5	4	4	5	5	4	4

Entry door

4. Dormer Calculation Grid

3	2								2	3	
5	4								3	5	
7	7								5	8	
12	14								13	13	
21	22	15	28	31	30	27	21	28	15	21	21
17	38	31	41	45	45	45	43	31	38	38	
02	03	03	03	06	07	07	06	03	03	02	

Second and Third Floor Columns

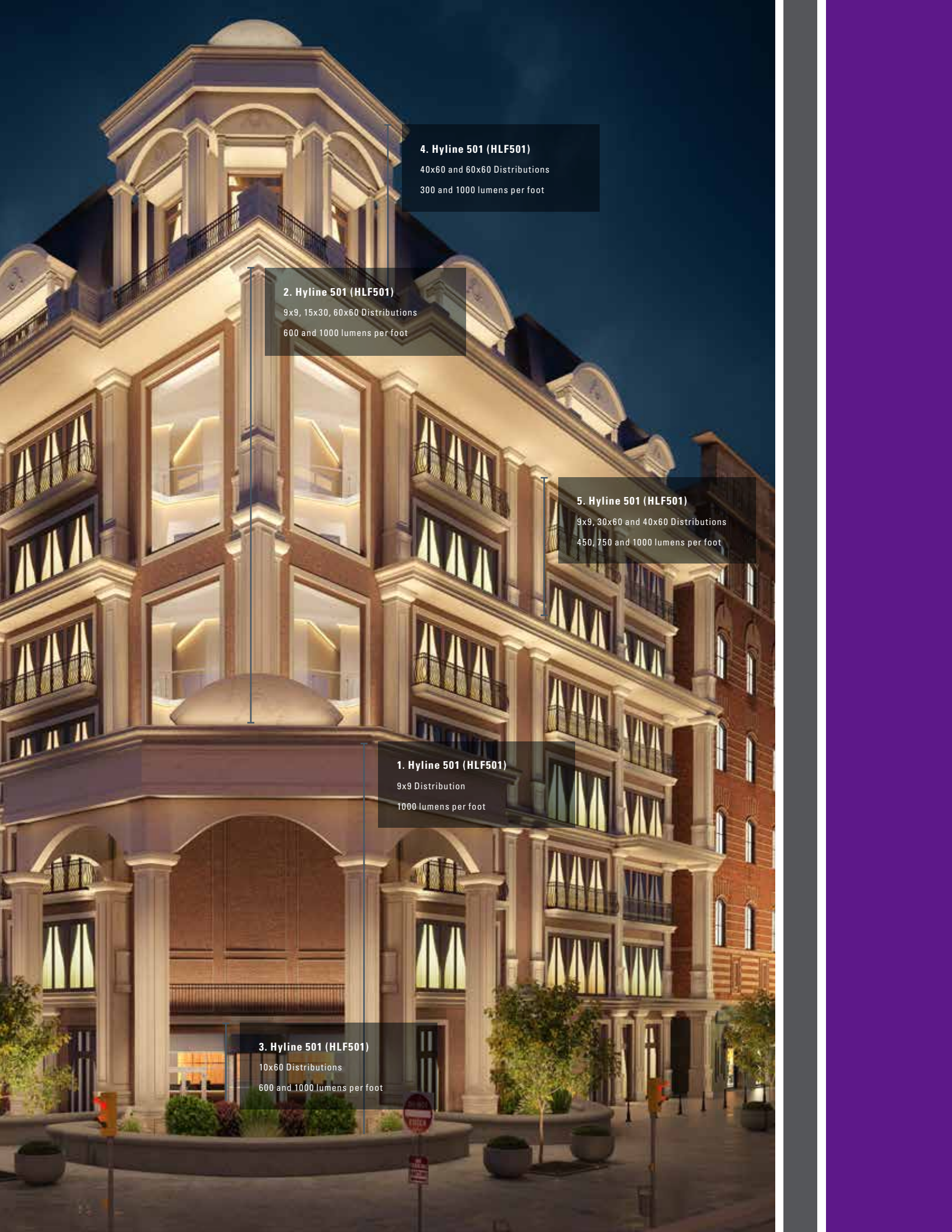
5. Bay Windows Calculation Grid

8	8	9	9	9	9	12	9	10
8	8	8	8	8	8	9	7	7
5	6	6	6	6	6	7	7	8
3	2	2	2	2	2	5	10	10
5	1	1	1	1	1	3	15	16
3	1	1	1	1	1	3	22	23
3	1	1	1	1	1	2	18	19

Windows Columns

Calculation grids are measured on a 1 ft x 1 ft grid.





**4. Hyline 501 (HLF501)**

40x60 and 60x60 Distributions  
300 and 1000 lumens per foot

**2. Hyline 501 (HLF501)**

9x9, 15x30, 60x60 Distributions  
600 and 1000 lumens per foot

**5. Hyline 501 (HLF501)**

9x9, 30x60 and 40x60 Distributions  
450, 750 and 1000 lumens per foot

**1. Hyline 501 (HLF501)**

9x9 Distribution  
1000 lumens per foot

**3. Hyline 501 (HLF501)**

10x60 Distributions  
600 and 1000 lumens per foot

# A FRESH PERSPECTIVE

Mounted along the canopy, the 501 Hyline (HLF501) features a direct view lens (DVL). Just over the railing is a cobalt blue building lit with the RGBW Hyline 501 in an asymmetric (WWD) distribution.

*See pages 10-11 for IES recommendations.*

Observation Deck Calculation Grid

3	3	3	2	2		
3	3	3	2	2		
3	3	3	2	2	1	
3	3	3	3	2	1	
3	3	3	3	2	1	
3	3	3	3	2	2	
3	3	3	3	2	2	
4	4	4	3	3	2	
4	4	4	3	3	2	2
4	4	4	3	3	2	
4	4	4	3	3		
4	4	4	3			
4	4	4	4			
4	4	4	4			
4	4	4	4			
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4	4	4	3			
4	4	4	3			
4	4	4	3			
3	3	3	3			
3	3	3	3			
3	3	3	3			
3	3	3	3			
3	3	3	3			
2	2	2	2			
2	2	2	2			

Railing

Calculation grids are measured on a 1 ft x 1 ft grid.



**Hyline HLF501  
(HLF501) in Static White**  
 Lambertian Distribution via Direct View  
 Lens (DVL)  
 3500K  
 300 lumens per foot



/view

**Hyline 501**

**(HLF501) in RGBW**

Lambertian Distribution via Direct

View Lens (DVL)

3500K

300 lumens per foot



Space Type	IES Recommendations (Visual age of observers where at least half a			
	Average Horizontal Illuminance	Uniformity	Task Plane	Average Vertical Illuminance
<b>Train Platform</b>	10 fc (100 lux)	2:1 avg:min	Floor	3 fc (30 lux)
<b>Hotel Entrance</b>	15 fc (150 lux) daytime	2:1 avg:min	Floor	7.5 fc (75 lux) daytime
	10 fc (100 lux) nighttime	2:1 avg:min	Floor	5 fc (50 lux) nighttime
<b>Exterior Observation Deck</b>				
Centers, Outdoor- plazas and town squares (high activity and high ambient light level of LZ4)	0.8 fc (8 lux)	5:1 avg:min	not provided; assume ground plane	0.4 fc (4 lux)
Ramps within this outdoor areas	1 fc (10 lux)	5:1 avg:min	not provided; assume ground plane	0.6 fc (6 lux)
Transition Spaces- if to be used similar to a lounge/general	4 fc (40 lux)	4:1 avg:min	2'-6" AFF	1.5 fc (15 lux)
Residential Exterior- if to be used for social activities (bbq, reading, gaming, reading, entertaining); assumes LZ4	0.8 fc (8 lux)	4:1 avg:min	ground/grade	0.4 fc (4 lux)



re 25-65 years old)

**Notes:**

Uniformity	Task Plane	
2:1 avg:min	5' AFF	Section 12 of IES RP-33-14 notes that it has not covered transportation terminals; RP-8-18 Part 2 does cover rail crossings, but not train platforms; source: IES Handbook 10th ed. 36.10; section 36.3.4 notes uniformity applies to both horizontal and vertical, unless different values are provided--first value is $E_h$ , second value $E_v$ in that case.
2:1 avg:min	5' AFF	IES-DG-25-12 Design Guide for Hotel Lighting. The values noted here are for high activity. Low activity requires lower light levels. Refer to Table C1 in the document.
2:1 avg:min	5' AFF	IES-DG-25-12 Design Guide for Hotel Lighting. The values noted here are for high activity. Low activity requires lower light levels. Refer to Table C1 in the document.
5:1 avg:min	not provided; assume ground plane	IES -RP-33-14 refers back to IES Handbook 10th ed., Table 34.2 Lighting For Retail. IES Handbook sections on Lighting for Exteriors and Lighting for Hospitality and Entertainments also referenced Lighting for Retail Table 34.2.
5:1 avg:min	not provided; assume ground plane	IES Handbook, Table 34.2
4:1 avg:min	2'-6" AFF	Also reviewed IES Handbook section on common applications, Table 22.2. The section recommends referring to light level recommendations for similar tasks (e.g. circulation, food service, transitional spaces) for guidance.
4:1 avg:min	4' AFG	Residential exterior social areas is another similar application in terms of use of space and visual tasks. Table 33.2 Social Areas/General served as reference in the IES Handbook 10th ed.





Learn more about Hyline 500 at  
[Hyrel.AcuityBrands.com/Hyline](https://Hyrel.AcuityBrands.com/Hyline)



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