

# KICHLER

Filename: 43870WHLED27-Photometric Report

Manufacturer: KICHLER LIGHTING

Luminaire: Horizon 2-43870WHLED27

Lamp: INTEGRATED LED

Lamp Output: 1 lamp, rated Lumens/lamp: 850

Max Candela: 337.5 at Horizontal: 350°, Vertical: 10°

Input Wattage: 12

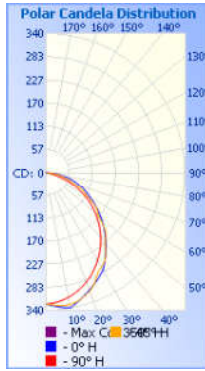
Luminous Opening: Rectangle w/Luminous Sides (L: 7.09", W: 7.09", H: 0.39")

Test Date: 2017-10-16

Test Lab: Lighting Technology Ltd

Photometry : Type B

Nema Type: 7 X 7



### Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	22.1	
Max Cd, 80 to <90 Deg:	44.0	
	Lumens % Lamp	
Downward Street Side:	435.7	51.3%
Downward House Side:	433.7	51%
Downward Total:	869.4	102.3%
Total Lumens:	869.4	102.3%

### Flood Summary

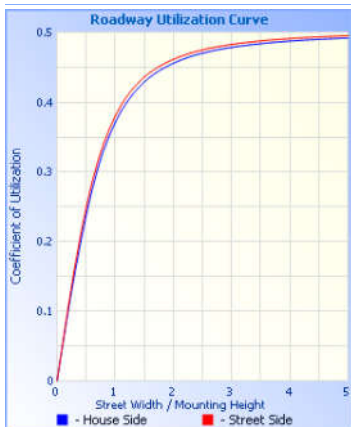
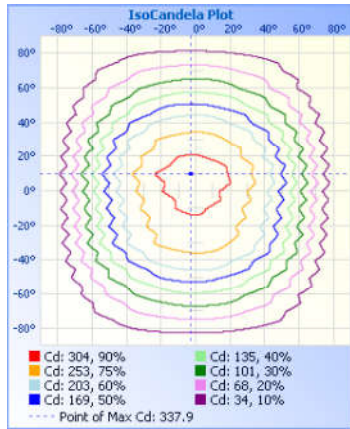
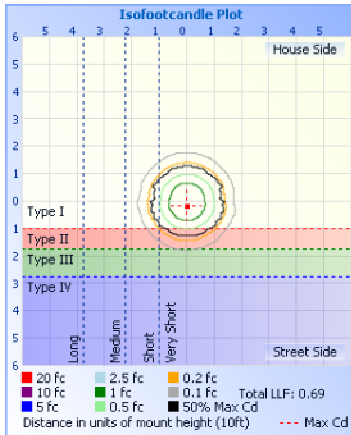
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.9%	849.4	152.8	164.1
Beam (50%):	68.7%	583.6	104	103.6
Total:	102.2%	868.6		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	250.1	29.4%	28.8%
0-40	406.7	47.8%	46.8%
0-60	698.2	82.1%	80.3%
60-90	171.1	20.1%	19.7%
0-90	869.4	102.3%	100%

### Lumens Per Zone

Zone	Lumens	% Total
0-10	30.7	3.5%
10-20	87.7	10.1%
20-30	131.7	15.1%
30-40	156.6	18.0%
40-50	156.7	18.0%
50-60	134.9	15.5%
60-70	97.7	11.2%
70-80	55.5	6.4%
80-90	17.9	2.1%



Center Beam fc	Beam Width
1.3R	191 fc / 3.3 ft
2.7R	44.3 fc / 6.9 ft
4.0R	20.2 fc / 10.2 ft
5.3R	11.5 fc / 13.6 ft
6.7R	7.20 fc / 17.0 ft
8.0R	5.05 fc / 20.3 ft

Vert. Spread: 103.6°  
Horiz. Spread: 104.0°

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	50	30	20	10	0	
RCR: 0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.02	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.02	1.02	1.02	1.02	1.02	1.02	
1	1.11	1.07	1.02	.98	1.09	1.04	1.00	.87	1.00	.97	.94	.96	.93	.91	.92	.90	.88	.86	.86	.86	.86	.86	.86	
2	1.01	.93	.86	.80	.99	.91	.85	.73	.88	.82	.78	.84	.80	.76	.81	.77	.74	.72	.72	.72	.72	.72	.72	
3	.93	.82	.74	.67	.90	.80	.73	.63	.77	.71	.65	.75	.69	.64	.72	.67	.63	.61	.61	.61	.61	.61	.61	
4	.85	.73	.64	.57	.83	.71	.63	.54	.69	.62	.56	.67	.60	.55	.64	.59	.54	.52	.52	.52	.52	.52	.52	
5	.78	.65	.56	.49	.76	.64	.55	.47	.62	.54	.49	.60	.53	.48	.58	.52	.48	.45	.45	.45	.45	.45	.45	
6	.72	.59	.50	.43	.70	.58	.49	.42	.56	.48	.43	.54	.47	.42	.53	.47	.42	.40	.40	.40	.40	.40	.40	
7	.67	.53	.44	.38	.65	.53	.44	.37	.51	.43	.38	.49	.43	.38	.48	.42	.37	.35	.35	.35	.35	.35	.35	
8	.62	.49	.40	.34	.61	.48	.40	.33	.47	.39	.34	.45	.39	.34	.44	.38	.33	.32	.32	.32	.32	.32	.32	
9	.58	.45	.36	.31	.57	.44	.36	.30	.43	.36	.31	.42	.35	.30	.41	.35	.30	.28	.28	.28	.28	.28	.28	
10	.55	.41	.33	.28	.53	.41	.33	.27	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26	.26	.26	.26	.26	.26	



**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Lighting Technology Ltd  
[TESTDATE] 2017-10-16  
[ISSUEDATE] 2017-11-30 11:23:56  
[NEARFIELD]  
[LAMPPOSITION] 0,0  
[OTHER] EVERFINE GO-2000B\_V1 SYSTEM  
[MANUFAC] KICHLER LIGHTING  
[LUMINAIRE] Horizon 2-43870WHLED27  
[LAMP] INTEGRATED LED  
[OTHER]  
[OTHER] Gamma (deg) Fz (lm) Ft (lm) %Lum %Lamp  
[OTHER] 0- 10 30.71 30.71 3.53 3.41  
[OTHER] 10- 20 87.82 118.54 13.64 13.17  
[OTHER] 20- 30 131.80 250.33 28.80 27.81  
[OTHER] 30- 40 156.81 407.14 46.84 45.24  
[OTHER] 40- 50 156.80 563.94 64.88 62.66  
[OTHER] 50- 60 134.99 698.94 80.42 77.66  
[OTHER] 60- 70 97.75 796.68 91.66 88.52  
[OTHER] 70- 80 55.42 852.10 98.04 94.68  
[OTHER] 80- 90 17.06 869.16 100.00 96.57  
[OTHER] 90-100 0.00 869.16 100.00 96.57  
[OTHER] 100-110 0.00 869.16 100.00 96.57  
[OTHER] 110-120 0.00 869.16 100.00 96.57  
[OTHER] 120-130 0.00 869.16 100.00 96.57  
[OTHER] 130-140 0.00 869.16 100.00 96.57  
[OTHER] 140-150 0.00 869.16 100.00 96.57  
[OTHER] 150-160 0.00 869.16 100.00 96.57  
[OTHER] 160-170 0.00 869.16 100.00 96.57  
[OTHER] 170-180 0.00 869.16 100.00 96.57  
[OTHER]  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 181  
FILE: COORDINATE SYSTEM: TYPE B  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 0.9

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Reported data calculated from manufacturer's data file, based on IES recommended methods.