

Photometrics Pro

Luminaire Photometric Report

Filename: 4inch disk light

Manufacturer: Shenzhen KOK Technology Co., Ltd

Luminaire: Downlight

Luminaire Cat: 4HVCT10Dyzz

Lamp Output: 1 lamp, rated Lumens/lamp: 621.9

Max Candela: 215.9 at Horizontal: 0°, Vertical: 0°

Input Wattage: 9.85

Luminous Opening: Circular (Dia: 3.94")

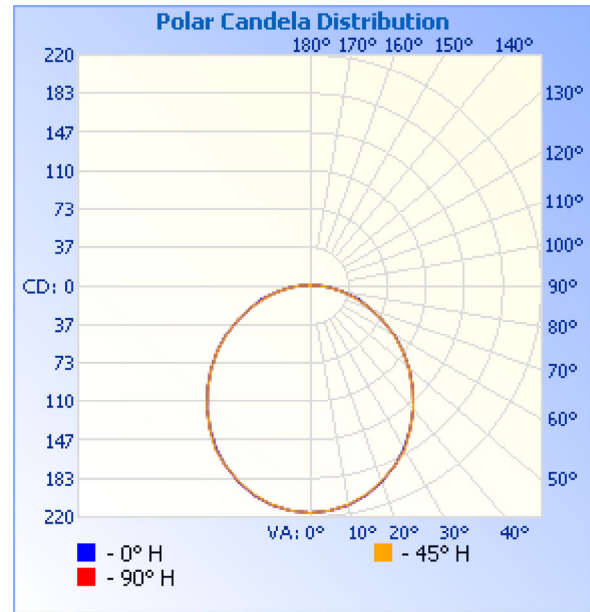
Test: LCZP22100142

Test Date: 2022/10/28

Test Lab: LCTECH 220812102002

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	9.3	
Max Cd, 80 to <90 Deg:	30.7	
	Lumens	% Lamp
Downward Street Side:	307.1	49.4%
Downward House Side:	307.1	49.4%
Downward Total:	614.1	98.8%
Upward Street Side:	3.6	0.6%
Upward House Side:	3.6	0.6%
Upward Total:	7.3	1.2%
Total Lumens:	621.4	99.9%

Flood Summary

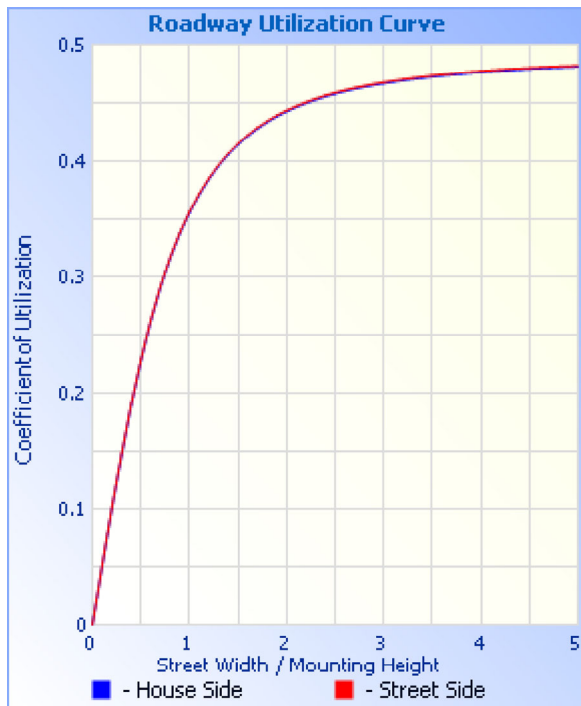
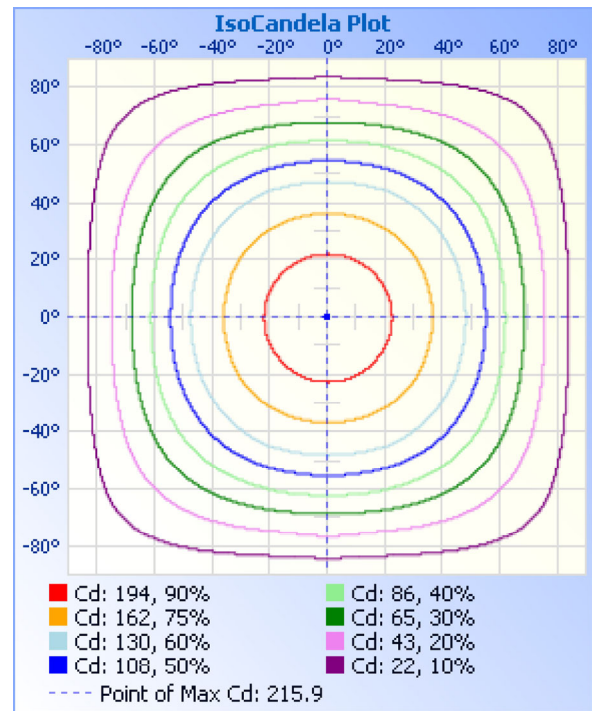
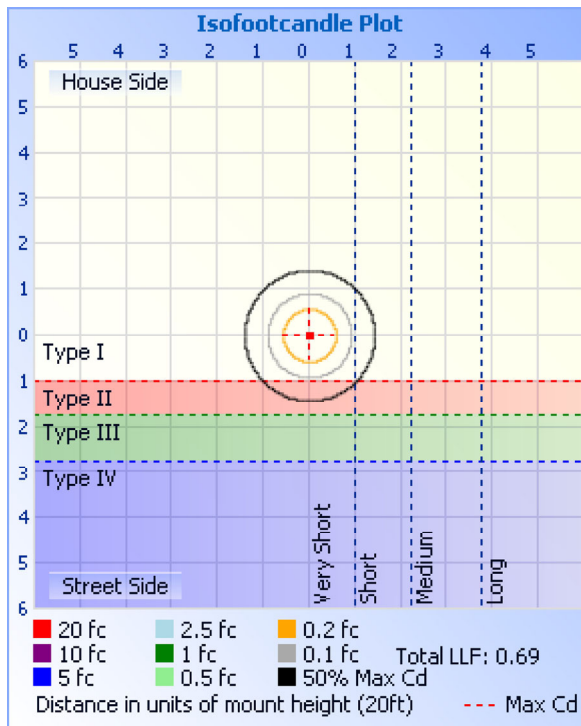
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97%	603.4	167.4	167.8
Beam (50%):	68.1%	423.8	109.5	110
Total:	99.9%	621.2		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	165.2	26.6%	26.6%
0-40	268.7	43.2%	43.3%
0-60	471.1	75.8%	75.8%
60-90	142.8	23%	23%
70-100	73.2	11.8%	11.8%
90-120	6.6	1.1%	1.1%
0-90	613.9	98.7%	98.8%
90-180	7.3	1.2%	1.2%
0-180	621.2	99.9%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	20.4	3.3%	90-100	5.1	0.8%
10-20	58.0	9.3%	100-110	0.9	0.1%
20-30	86.9	14.0%	110-120	0.6	0.1%
30-40	103.5	16.7%	120-130	0.4	0.1%
40-50	106.4	17.1%	130-140	0.1	0%
50-60	95.9	15.4%	140-150	0.0	0%
60-70	74.7	12.0%	150-160	0.0	0%
70-80	47.3	7.6%	160-170	0.1	0%
80-90	20.8	3.3%	170-180	0.1	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7R	74.7 fc	4.9 ft	4.8 ft
3.3R	19.8 fc	9.4 ft	9.3 ft
5.0R	8.64 fc	14.3 ft	14.1 ft
6.7R	4.81 fc	19.1 ft	18.9 ft
8.3R	3.13 fc	23.7 ft	23.5 ft
10.0R	2.16 fc	28.6 ft	28.3 ft

Vert. Spread: 110.0°
Horiz. Spread: 109.5°

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	0	50	30	20	0	50	30	20	0	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.10	1.10	1.10	1.10	1.05	1.05	1.05	1.05	1.01	1.01	1.01	1.01	.99
1	1.08	1.03	.98	.94	1.05	1.00	.96	.82	.96	.92	.89	.89	.92	.89	.86	.86	.88	.86	.83	.83	.81
2	.98	.89	.82	.76	.95	.87	.81	.69	.83	.78	.73	.73	.80	.75	.71	.71	.77	.73	.70	.70	.67
3	.89	.78	.70	.63	.86	.76	.69	.58	.73	.67	.61	.61	.70	.65	.60	.60	.68	.63	.59	.59	.56

4	.81	.69	.60	.53	.79	.68	.59	.50	.65	.58	.52	.63	.56	.51	.60	.55	.50	.48
5	.75	.62	.53	.46	.73	.61	.52	.43	.58	.51	.45	.56	.50	.44	.54	.48	.44	.42
6	.69	.56	.47	.40	.67	.55	.46	.38	.53	.45	.39	.51	.44	.39	.49	.43	.38	.36
7	.64	.50	.42	.35	.62	.50	.41	.34	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8	.60	.46	.37	.32	.58	.45	.37	.30	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9	.56	.42	.34	.28	.54	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10	.52	.39	.31	.26	.51	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23

Candela Table - Type C

	0	15	30	45	60	75	90
0	216	216	216	216	216	216	216
5	215	215	215	215	215	215	215
10	211	211	211	211	211	211	212
15	206	206	206	205	206	205	206
20	199	199	199	198	198	198	198
25	189	189	189	189	189	189	189
30	178	178	178	179	178	177	179
35	166	166	166	166	166	165	166
40	152	152	152	152	152	152	153
45	138	138	140	138	138	138	138
50	123	123	123	122	122	123	123
55	108	107	107	107	107	107	107
60	92	93	92	91	91	92	92
65	76	76	75	76	75	75	75
70	60	60	59	59	59	59	59
75	48	44	45	45	44	45	44
80	31	30	30	30	30	31	31
85	19	18	18	18	18	18	18
90	9	9	9	9	9	9	9
95	4	4	4	4	4	4	4
100	1	1	1	1	1	1	1
105	1	1	0	0	1	1	1
110	0	0	0	1	1	1	1
115	0	0	1	1	1	1	1
120	0	0	0	1	1	1	1
125	0	0	0	0	1	0	0
130	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0
170	0	1	1	0	0	1	0
175	0	1	0	1	1	1	1
180	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] LCZP22100142
[TESTLAB] LCTECH 220812102002
[TESTDATE] 2022/10/28
[ISSUE DATE] 2022/10/28
[MANUFAC] Shenzhen KOK Technology Co., Ltd
[LUMCAT] 4HVCT10Dyzz
[LUMINAIRE] Downlight
[LAMPCAT]
[LAMP]
[LumELE] 120 0.09 9.85 0.9165
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 37, HORIZONTAL ANGLES: 7
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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