

Cobra Head Series

Dark Sky Qualifying (with FG option)
Induction roadway Compact Horizontal-Style

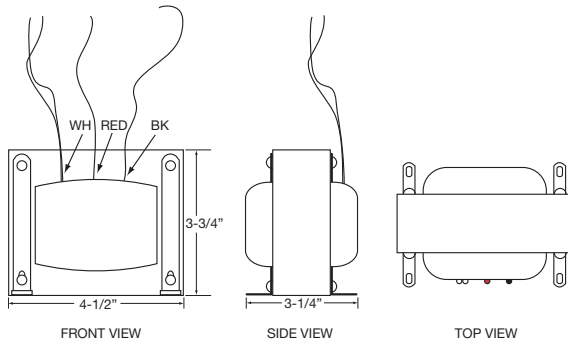
We reserve the right to revise the design or components of any product without notice.

Catalog Number	
Project/Location	Type
Approved By	

SPECIFICATIONS

- BALLAST— HF Induction Generator.
- GASKETING— High Temperature, Non-aging Gray Silicone fully enclosed to protect against outside contaminants
- HOUSING— Heavy Duty Die-Cast Aluminum. Finished in Gray Oven Baked Polyester Powder Coat
- LAMP— Induction QL - INCLUDED.
- MOUNTING— Pole Mount
- REFLECTOR— Reflective design aluminum for high efficiency. Optimal light distribution characteristics.
- REFRACTOR— Clear Drop prismatic Glass Standard. Optional Clear Flat Glass lens (Consult Factory)
- UL/ULC— UL/ULC Listed to U.S. and Canadian safety standards OPTIONAL

High efficiency reflector system provides broad, even illumination for street lighting, highway signage, security and general area illumination.



optional RM480 Remote Mount Auto Transformer (480 volt)



shown with Full Cut-Off clear Flat Glass (FG) lens option for Dark Sky Compliance

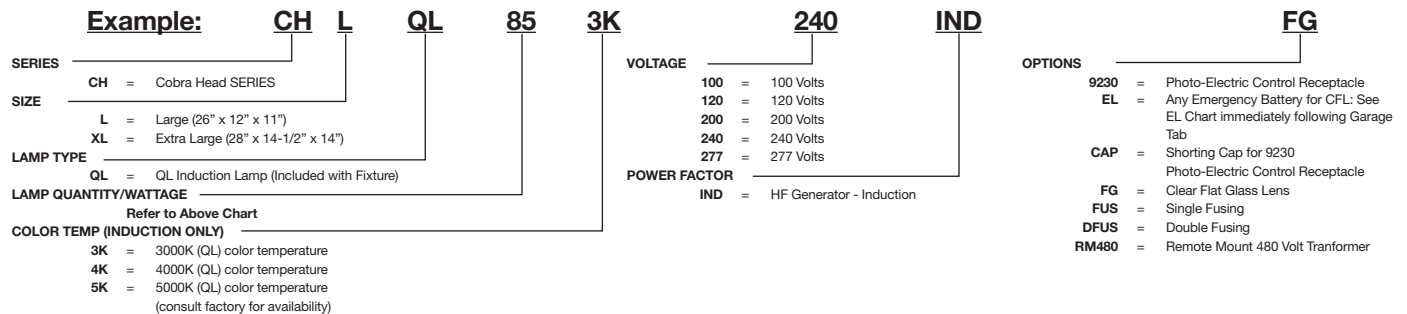


Lamp Size/Series	L	XL
Dimensions - W x H x D	26" x 12" x 11"	28" x 14-1/2" x 14"
QL Induction ** Up to 100,000 HR Lamp Life	55/85w	55/85w



** Lamping system is WARRANTED by Osram and Philips for 40,000 HOURS.

Catalog Number Ordering Guide



9245 W. Ivanhoe St. | Schiller Park, IL 60176 | p: (847) 260-0333 | f: (847) 260-0344
 www.eclipselightinginc.com | quotes@eclipselightinginc.com

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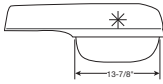
PHOTOMETRIC DATA:

COBRA HEAD SERIES

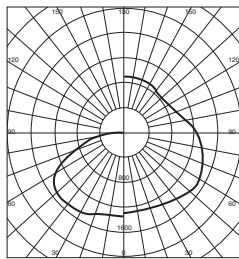
LSI test # 17740 CH-L-IND-QL-165W-277V diffuse reflector and prismatic glass drop lens

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	2021	12.60	17.89
0-40	4430	21.30	30.24
0-60	7732	37.18	52.77
0-90	13681	65.78	93.36
40-90	9250	44.47	63.13
60-90	5949	29.60	40.59
90-180	972	4.68	5.64
0-180	14654	70.45	100.00



Candela Summary: CP Curve and Table

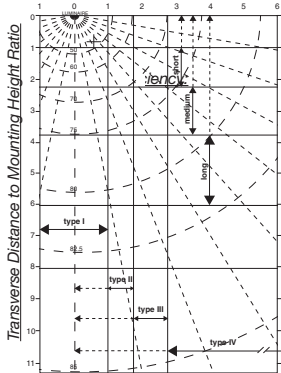


Angle	CP
0	1335
5	1332
10	1324
15	1313
20	1298
25	1279
30	1257
35	1232
40	1204
45	1173
50	1140
55	1105
60	1068
65	1029
70	988
75	945
80	900
85	853
90	804
95	753
100	700
105	645
110	588
115	529
120	468
125	405
130	340
135	273
140	204
145	133
150	60
155	0
160	0
165	0
170	0
175	0
180	0

Coefficients of Utilization

RATIO	HOUSE SIDE	STREET SIDE	TOTAL
.5	.081	.100	.181
1.0	.127	.170	.297
1.5	.150	.207	.357
2.0	.161	.227	.388
2.5	.166	.238	.404
3.0	.169	.244	.413
3.5	.171	.248	.419
4.0	.172	.250	.423
5.0	.174	.254	.428
TOTAL	.178	.263	.441

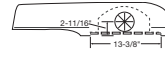
Efficiency: 45.4%



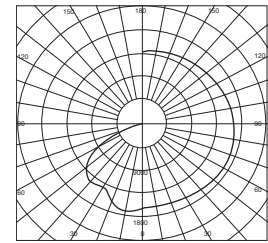
LSI test # 19342 CH-L-IND-QL-85W-120V-FG diffuse reflector and clear flat glass lens

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	1191	28.6	29.6
0-40	1889	47.0	46.9
0-60	3341	83.1	83.0
0-90	4027	100.1	100.0
60-90	686	17.0	17.0
90-180	0.0	0.0	0.0
0-180	4027	100.1	100.0



Candela Summary: CP Curve and Table

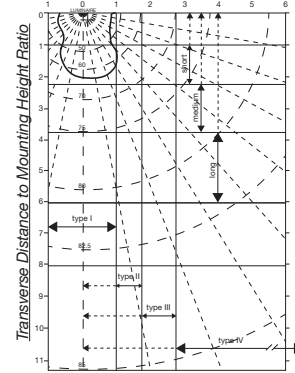


Angle	CP
0	1653
5	1651
10	1641
15	1623
20	1598
25	1566
30	1527
35	1482
40	1431
45	1375
50	1313
55	1246
60	1174
65	1097
70	1015
75	928
80	836
85	740
90	640
95	536
100	428
105	316
110	200
115	80
120	0
125	0
130	0
135	0
140	0
145	0
150	0
155	0
160	0
165	0
170	0
175	0
180	0

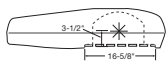
Coefficients of Utilization

RATIO	HOUSE SIDE	STREET SIDE	TOTAL
.5	.257	.298	.555
1.0	.361	.445	.807
1.5	.406	.503	.909
2.0	.426	.527	.953
2.5	.436	.539	.974
3.0	.439	.544	.983
3.5	.442	.548	.989
4.0	.443	.549	.992
5.0	.445	.552	.996
TOTAL	.445	.555	1.000

Efficiency: 100.1%



LSI test # 20433 CH-XL-IND-QL-165W-277-FG-GR semi-specular reflector and clear flat glass lens

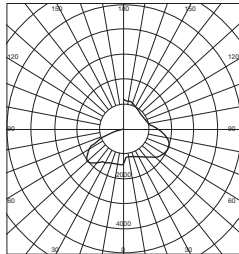


Coefficients of Utilization

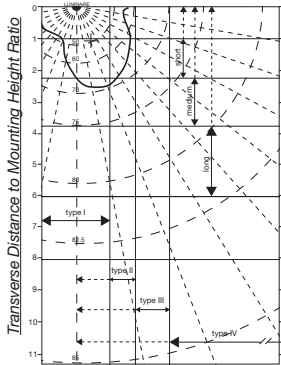
RATIO	HOUSE SIDE	STREET SIDE	TOTAL
.5	.201	.257	.458
1.0	.318	.433	.751
1.5	.371	.518	.889
2.0	.392	.554	.947
2.5	.402	.571	.973
3.0	.406	.578	.983
3.5	.408	.582	.990
4.0	.409	.584	.993
5.0	.411	.586	.997
TOTAL	.412	.588	1.000

Efficiency: 100.4%

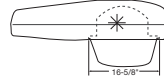
Candela Summary: CP Curve and Table



Angle	CP
0.0	1259
5.0	1172
10.0	1079
15.0	979
20.0	874
25.0	764
30.0	649
35.0	530
40.0	407
45.0	281
50.0	152
55.0	20
60.0	0
65.0	0
70.0	0
75.0	0
80.0	0
85.0	0
90.0	0
95.0	0
100.0	0
105.0	0
110.0	0
115.0	0
120.0	0
125.0	0
130.0	0
135.0	0
140.0	0
145.0	0
150.0	0
155.0	0
160.0	0
165.0	0
170.0	0
175.0	0
180.0	0



LSI test # 20434 CH-XL-IND-QL-165W-277-DG-GR semi-specular reflector and prismatic glass bowl lens

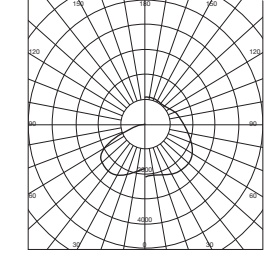


Coefficients of Utilization

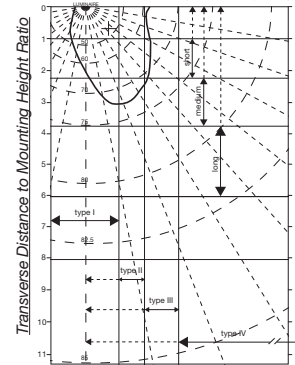
RATIO	HOUSE SIDE	STREET SIDE	TOTAL
.5	.167	.242	.409
1.0	.254	.429	.683
1.5	.293	.526	.819
2.0	.310	.570	.880
2.5	.319	.590	.909
3.0	.324	.599	.923
3.5	.328	.606	.933
4.0	.329	.609	.938
5.0	.333	.613	.946
TOTAL	.342	.626	.969

Efficiency: 100.2%

Candela Summary: CP Curve and Table



Angle	CP
0.0	2105
5.0	2089
10.0	2036
15.0	1936
20.0	1824
25.0	1694
30.0	1547
35.0	1394
40.0	1236
45.0	1074
50.0	908
55.0	738
60.0	564
65.0	386
70.0	204
75.0	20
80.0	0
85.0	0
90.0	0
95.0	0
100.0	0
105.0	0
110.0	0
115.0	0
120.0	0
125.0	0
130.0	0
135.0	0
140.0	0
145.0	0
150.0	0
155.0	0
160.0	0
165.0	0
170.0	0
175.0	0
180.0	0



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9245 W. Ivanhoe St. | Schiller Park, IL 60176 | p: (847) 260-0333 | f: (847) 260-0344
www.eclipselightinginc.com | quotes@eclipselightinginc.com

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