

# Kaiser Series

## Area/Parking/Industrial

HID, LED, INDUCTION

Round Garage Luminaire — Energy Saving

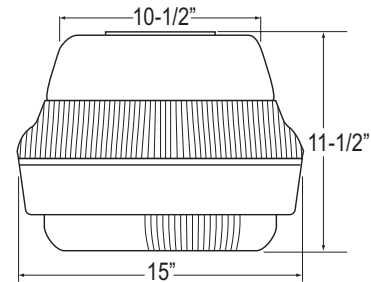
We reserve the right to revise the design or components of any product without notice.

CATALOG #		TYPE
PROJECT/LOCATION		
APPROVED BY		



### SPECIFICATIONS

- BALLAST** — For Compact Fluorescent Electronic Cold Weather HPF is Standard. For HID Pulse Start is Standard. Optional High Temperature Electronic Ballast operates from -30°C up to 90°C max case temperature.
- DIFFUSER** — 15" Diameter with Clear Dome Lens, Approximately 85% Light to Driving Area and 15% Uplight. IES Type V is Standard.
- GASKETING** — High Temperature, Non-aging Gray Silicone Gasket Under Diffuser and EPDM Gasket for Rear Wire Entrance Hole to Protect Against Outside Contaminants.
- HOUSING** — Cast Aluminum. Finished in White Oven Baked Polyester Powder Coat.
- LAMP** — (HID) Medium Base High Metal Halide (Recommend use of lamps with UV Guard); Induction QL; LED - INCLUDED.
- LENS FASTENERS** — Stainless Steel Tamper Proof Screw or Standard 8-32 to Secure Assembly
- MOUNTING** — Direct Mount: Housing is Supplied with (3) 5/16" Holes for 1/4" screws.
- PHOTOMETRICS** — Type Five IES Distributions. (See Distribution for Options)
- UL/ULC Listed to U.S. and Canadian safety standards - Suitable for wet locations.



LAMP TYPE/QTY/WATTAGE <sup>1</sup>		
Fixture	Kaiser	
Dimensions	15" dia. x 11 1/2"	
QL Induction Up to 100,000 HR Lamp Life <sup>4</sup>	QL	55/85w
Circle Induction	INDC	80/100w
Metal Halide	MH	100/150w
Ceramic Metal Halide Philips - CosmoPolis™	CMHC	60, 90w (277V Standard) <sup>1</sup>
Light Emitting Diode	LED	60/70/80w



Optional Rapid Mount Box (RMB)

ORDERING GUIDE:	SERIES	LAMP TYPE/QTY/WATT	COLOR TEMP	VOLTAGE/POWER FACTOR	FINISH	OPTIONS

#### NOTES:

- Consult Factory with requests regarding lamp sources, including LED, color temp., wattages or voltages not shown.
- Consult Factory for additional Emergency Battery options not shown.
- Lamping system is warranted by Osram and Philips for 40,000 HOURS.
- QRS: 120v Only—Lamp by Others
- Available with Step Dimming Option (CMHL) Philips-Lumistep™ Specify: "6" for 6hrs; "8" for 8hrs; "X" for 10hrs

#### SERIES

KA = Kaiser SERIES

LAMP TYPE/QUANTITY/WATTAGE  
Refer to Above Chart

#### COLOR TEMP (LED, Induction)

- 3K = ±3000K range Induction Only
- 4K = ±4000K range Induction Only
- 5K = ±5000K range LED or Induction

#### VOLTAGE/POWER FACTOR

- 120 = 120 Volts
- 277 = 277 Volts
- 347 = 347 Volts
- EB = High Power Factor Electronic Ballast

- EBMH = Electronic Ballast for MH
- EBU = Universal Voltage (120 thru 277v)
- IND = HF Generator - Induction
- QV = 120/208/240/277 Volts

#### FINISH

WH = White Finish Only

#### EMERGENCY OPTIONS<sup>3</sup>

REL52 = Remote Emergency Battery Cold Weather (Bodine) TTT; 1-2 Lamp; up to 1250 Lms

#### LED OPTIONS

- BL = Dual Circuit Bi-Level Lighting Switched High/Low
- EC1 = (1) Three Watt LED for Emergency Circuits
- EC2 = (2) Three Watt LED for Emergency Circuits
- EC3 = 15 Watt LED for Emergency Circuits
- LDIM = 0-10V low-voltage dimming (100-30% Standard, Consult Factory for Other)
- SG = 10KA Surge Protection for LED fixtures (meets ANSI spec C62.41.2)

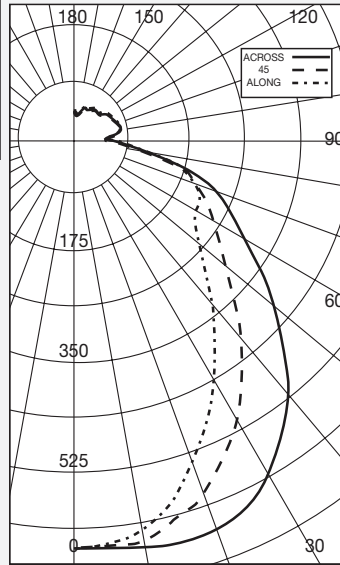
#### OPTIONS

- CMHL = Ceramic Metal Halide CosmoPolis™ with Step Dimming: Lumistep™ (Philips)<sup>7</sup>
- FUS = Single Fusing
- FRS = Fluorescent Standby System TTT32W activates in black-out or emergency, deactivates at power restoration—external control.
- MSE = Motion Sensor External for LED, IND Specify Finish: White (WH) or Bronze (BZ)
- MSI = Motion Sensor Integral for LED, IND
- PC = Prismatic Polycarbonate Diffuser (Type V)
- PEND = Pendant Mounting Kit, 1/2" conduit entrance hole. Must Specify Stem Length
- QM = Quick Mount (Not avail. for LED)
- QRS = Quartz Restrike Relay<sup>3</sup>
- RMB = Rapid Mount Galvanized "J" Box (Standard for LED)

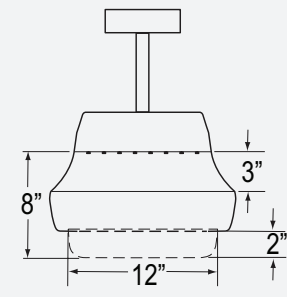
# PHOTOMETRIC DATA:

## Kaiser Series Tested Using the IES LM79 Standards

**ITL test # 25778**  
**KA-LED90-EUB-WHT-3CKT**  
with interior lensing and prismatic plastic side and drop lens



<b>POWER FACTOR</b>	<b>98.2%</b>
<b>LUMENS (Light Output)</b>	<b>2177</b>
<b>WATTS</b>	<b>73.4 (at Test)</b>
<b>EFFICACY (Lumens per Watt)</b>	<b>29.7</b>
<b>CRI (Color Rendering Index)</b>	<b>70.1</b>
<b>CCT (Correlated Color Temp.)</b>	<b>4759K</b>



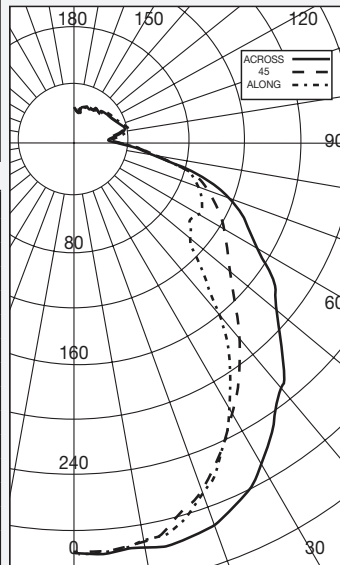
Zunal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	490	22.53
0-40	780	35.81
0-60	1312	60.29
0-90	1798	82.61
40-90	1019	46.80
60-90	486	22.32
90-180	379	17.39
0-180	2177	100.00

### Coefficients of Utilization

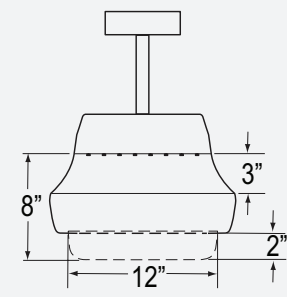
Room Cavity Ratio	PCC>	90%			70%			50%	
		70%	50%	30%	70%	50%	30%	50%	30%
	PW>	70%	50%	30%	70%	50%	30%	50%	30%
0		120	120	120	110	110	110	101	101
1		109	103	99	100	96	92	88	85
2		99	91	83	91	84	78	77	72
3		91	79	71	83	74	67	68	62
4		84	71	62	76	66	59	61	55
5		77	63	54	70	59	51	55	48
6		71	57	48	65	53	45	50	43
7		65	51	42	60	48	40	45	38
8		61	46	38	56	43	36	41	34
9		56	42	34	52	40	32	37	31
10		52	39	30	48	36	29	34	28

Rm. Percentage = 20%; PCC = Ceiling Reflectance; PW = Wall Reflectance

**ITL test # 25779**  
**KA-LED40-EUB-1CKT**  
with interior lensing and prismatic plastic side and drop lens



<b>POWER FACTOR</b>	<b>98.7%</b>
<b>LUMENS (Light Output)</b>	<b>1026</b>
<b>WATTS</b>	<b>32.8 (at Test)</b>
<b>EFFICACY (Lumens per Watt)</b>	<b>31.3</b>
<b>CRI (Color Rendering Index)</b>	<b>69.6</b>
<b>CCT (Correlated Color Temp.)</b>	<b>4766K</b>



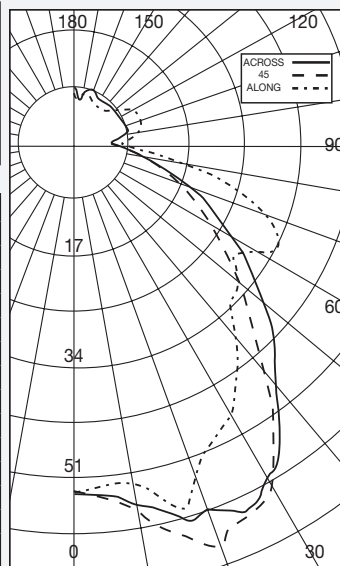
Zunal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	225	21.91
0-40	357	34.76
0-60	602	58.71
0-90	839	81.72
40-90	482	46.96
60-90	236	23.01
90-180	188	18.28
0-180	1026	100.00

### Coefficients of Utilization

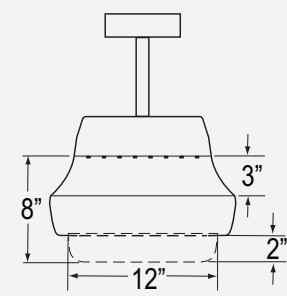
Room Cavity Ratio	PCC>	90%			70%			50%	
		70%	50%	30%	70%	50%	30%	50%	30%
	PW>	70%	50%	30%	70%	50%	30%	50%	30%
0		119	119	119	110	110	110	101	101
1		109	103	98	99	95	91	87	84
2		99	90	83	90	83	77	76	72
3		90	79	70	82	73	66	68	62
4		83	70	61	76	65	58	61	54
5		77	63	53	70	58	50	54	47
6		71	56	47	64	52	44	49	42
7		65	51	42	59	47	39	44	37
8		60	46	37	55	43	35	40	33
9		56	42	33	51	39	32	37	30
10		52	38	30	48	36	29	34	27

Rm. Percentage = 20%; PCC = Ceiling Reflectance; PW = Wall Reflectance

**ITL test # 25807**  
**KA-LED10-EMERG**  
with interior lensing and prismatic plastic side and drop lens



<b>POWER FACTOR</b>	<b>90.1%</b>
<b>LUMENS (Light Output)</b>	<b>237</b>
<b>WATTS</b>	<b>9.3 (at Test)</b>
<b>EFFICACY (Lumens per Watt)</b>	<b>25.4</b>
<b>CRI (Color Rendering Index)</b>	<b>73.5</b>
<b>CCT (Correlated Color Temp.)</b>	<b>4907</b>



Zunal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	50	20.94
0-40	82	34.54
0-60	138	58.23
0-90	186	78.76
40-90	105	44.23
60-90	49	20.53
90-180	50	21.24
0-180	237	100.00

### Coefficients of Utilization

Room Cavity Ratio	PCC>	90%			70%			50%	
		70%	50%	30%	70%	50%	30%	50%	30%
	PW>	70%	50%	30%	70%	50%	30%	50%	30%
0		119	119	119	109	109	109	99	99
1		108	103	98	99	94	91	86	83
2		99	90	83	90	83	77	76	71
3		90	79	71	82	73	66	67	61
4		83	71	62	76	65	58	60	54
5		77	63	54	69	58	50	54	47
6		71	57	48	64	52	45	49	42
7		65	51	42	59	47	39	44	37
8		60	46	37	55	43	35	40	33
9		56	42	33	51	39	32	36	30
10		52	38	30	47	35	28	33	27

Rm. Percentage = 20%; PCC = Ceiling Reflectance; PW = Wall Reflectance

# PHOTOMETRIC DATA:

# KAISER Series

**ITL test # 28008 KA-COSMO-90-3K-277-EB-B**  
 white interior with diffuse reflector  
 and prismatic plastic side and drop lens

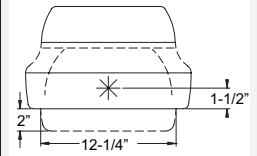
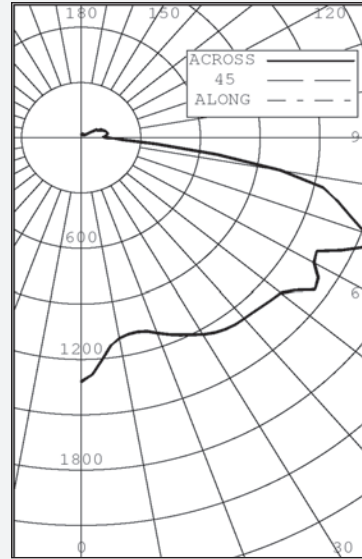
Test Date: 11/10/2010

Coefficients of Utilization										
Room Cavity Ratio	PCC>	90%			70%			50%		
	PW>	70%	50%	30%	70%	50%	30%	50%	30%	
0	90	90	90	90	85	85	85	80	80	
1	80	75	70	75	70	67	66	66	63	
2	71	63	56	66	59	53	55	50	50	
3	63	53	45	58	49	43	46	41	41	
4	57	46	37	53	43	36	40	34	34	
5	52	40	32	48	37	30	35	29	29	
6	47	35	27	43	33	26	31	25	25	
7	43	31	23	40	29	22	27	21	21	
8	40	27	20	37	26	19	25	18	18	
9	37	25	18	34	24	17	22	16	16	
10	34	23	15	32	21	15	20	14	14	

*Rm. Percentage = 20%; PCC = Ceiling Reflectance; PW = Wall Reflectance*

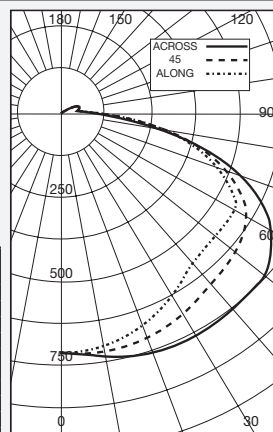
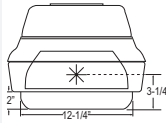
Zunal Lumen Summary			
Zone	Lumens	%Lamp	%Luminaire
0-30	970	9.28	12.45
0-40	1761	16.85	22.61
0-60	4001	38.28	51.35
0-90	7323	70.08	94.00
40-90	5562	53.22	71.39
60-90	3323	31.79	42.65
90-180	468	4.48	6.00
0-180	7791	74.55	100.00

**Efficiency: 74.6%**



**LSI test # 20677 KA-QL-85W-120-WH**  
 white interior and prismatic plastic side & drop lens  
 Test Date: 11/30/05

Zunal Lumen Summary			
Zone	Lumens	%Lamp	%Luminaire
0-30	596	17.24	17.24
0-40	1020	29.49	29.49
0-60	2094	60.50	60.50
0-90	3291	95.07	95.07
40-90	2270	65.58	65.58
60-90	1196	34.57	34.57
90-180	170	4.93	4.93
0-180	3461	100.00	100.00



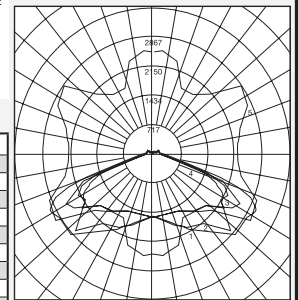
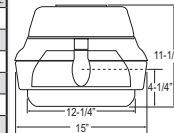
**Efficiency: 100.1%**

Coefficients of Utilization										
Room Cavity Ratio	PCC>	80%			70%			50%		
	PW>	70%	50%	30%	70%	50%	30%	50%	30%	
0	121	121	121	121	115	115	115	108	108	
1	109	102	97	102	97	92	91	87	87	
2	97	87	79	91	83	75	78	72	72	
3	88	75	65	82	71	63	67	60	60	
4	80	66	55	75	63	54	59	52	52	
5	73	58	48	68	55	46	52	44	44	
6	67	51	41	62	49	39	46	38	38	
7	61	45	35	57	43	34	41	33	33	
8	56	41	31	53	39	30	37	29	29	
9	52	37	28	49	35	27	34	26	26	
10	48	34	24	45	32	24	31	23	23	

*Rm. Percentage = 20%; PCC = Ceiling Reflectance; PW = Wall Reflectance*

**LSI test # 60512C KA-MH-175W-120**  
 white reflector and clear prismatic lens  
 Test Date: 06/16/05

Zunal Lumen Summary			
Zone	Lumens	%Lamp	%Luminaire
0-30	972.09	7.10	9.90
0-40	1971.85	14.50	20.00
0-60	6241.23	45.90	63.30
0-90	9181.79	67.50	93.10
40-90	447.84	3.30	4.50
60-90	626.18	4.60	5.50
90-180	682.68	5.00	6.90
0-180	9864.46	72.50	100.00



**Efficiency: 72.6%**

Coefficients of Utilization										
Room Cavity Ratio	PCC>	80%			70%			50%		
	PW>	70%	50%	30%	70%	50%	30%	50%	30%	
0	85	85	85	83	83	83	78	78	78	
1	76	72	68	74	70	67	66	63	63	
2	68	61	55	65	59	53	55	51	51	
3	60	51	44	58	50	43	47	41	41	
4	54	44	36	52	42	35	40	34	34	
5	49	38	30	47	37	29	34	28	28	
6	44	33	26	42	32	25	30	24	24	
7	40	29	22	39	28	21	27	20	20	
8	37	26	19	35	25	19	24	18	18	
9	34	23	17	33	23	16	21	16	16	
10	32	21	15	31	21	15	19	14	14	

*Rm. Percentage = 20%; PCC = Ceiling Reflectance; PW = Wall Reflectance*