Incandescent Lighting Fixtures
EUL Series

Wet Locations
Factory Sealed
NEMA 3, 3R, 7

❖ Type of Explosion-proof
Flameproof (Ex d IIB T3)

❖ Application

EUL Series lighting fixtures are used ;

- in tunnels, building entrances and similar locations where moisture, dirt, chemicals or rough usage are a problem.
- in heavy process industries having environments where flammable or explosive vapors or gases, or where combustible dusts are present.
- in areas where combustible dusts and flammable vapors are present simultaneously.
- in hazardous areas, both indoors and outdoors where long life and low maintenance costs are desired.
- where high light output is needed but space is limited.
- where ignitable concentrations of flammable gases, vapors, liquids or dusts can exist some of the time under normal operating conditions.



<EUL 3021>

❖ Features

- The body is cast in one piece, and the upper part of which forms a terminal chamber.
- Globe assembly is securely hinged to the body.
- Mounting box has four-way conduit entries and a large access cover for wiring.
- The globe holder is fixed to the base of the body with special flameproof and weatherproof flanged joint.
- The guard is so constructed that can be hinged down for cleaning the globe.

❖ Compliance

- IEC 60079-0, 1
- NEMA 3, 3R, 7
- IP 55

❖ Certification

- Certified by KOSHA (Korea Occupational Safety & Health Agency), KGS (Korea Gas Safety Corporation), and the others.

❖ Standard Materials

- Enclosure : Die casting aluminium
- Globe : Heat resistant hard glass
- Inner Reflector : High purity aluminium
- External Hardware : Stainless steel
- Mounting Box : Cast aluminium alloy

❖ Standard Finish

- MUNSELL No. 7.5BG 6/1.5
- If you want another color, contact us please.

❖ Technical Data

Electrical Rating	
Rated Voltage	AC110V/ 220V/ 240V/ DC110V
Rated Wattage	100W/ 200W
Rated Frequency	50Hz/ 60Hz
Entry Size	1/2", 3/4", 1"

❖ Weight

Mounting Type	Catalog No.	Weight
Ceiling	EUL 3022	3.7 ㎏

⇨ If you need more information, contact us please.

Copyright by NAMBUK Electric Co., LTD. 2004

❖ Ordering Number

Lamp	Watt	Pendant	Ceiling	90° Bracket	40° Bracket	Certification
Incandescent Lamp	100	EUL 3011	EUL 3021	EUL 3031	EUL 3041	Ex d IIB T3
	200	EUL 3012	EUL 3022	EUL 3032	EUL 3042	

* For Pole type, see pole section (1L-19)

❖ Ordering Information

EUL30 2 1
① ② ③

① EUL Lighting Fixture

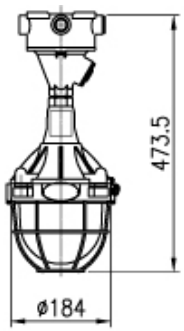
② Mounting Type
1 - Pendant
2 - Ceiling
3 - 90° Bracket
4 - 40° Bracket

③ Wattage (W)
1 - 100
2 - 200

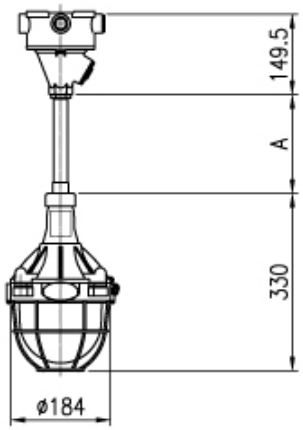
❖ Temperature Performance Data

Lamp		Ambient	Flameproof	Dust-Ignition
Type	Watt.	Temp (℃)	"d"	"DP"
Incandescent	100	40	T4	11
		55	T3	-
	200	40	T4	11
		55	T3	-

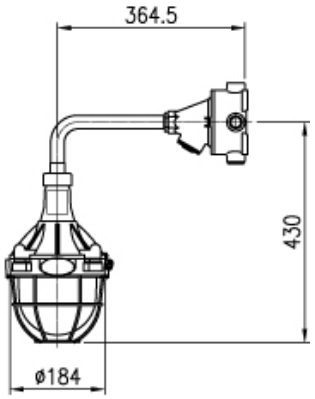
❖ Dimension



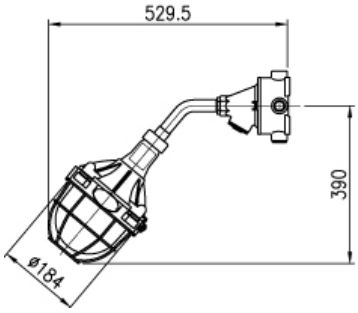
<Ceiling Type>



<Pendant Type>



<90° Bracket Type >



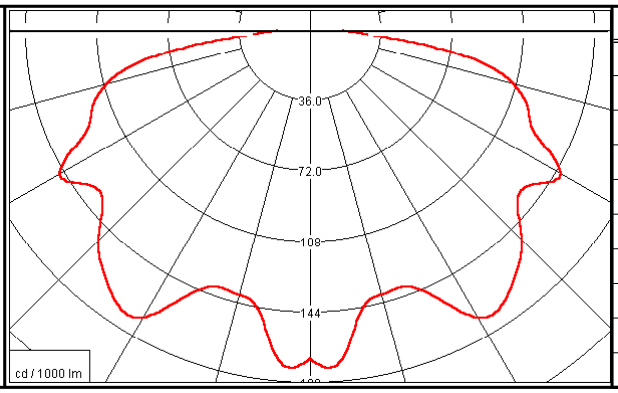
<40° Bracket Type >

Copyright by NAMBUK Electric Co., LTD. 2004

❖ Photometric Data

<EUL 3021>

+ Lamp : IL100 (1250lm)
+ With Guard



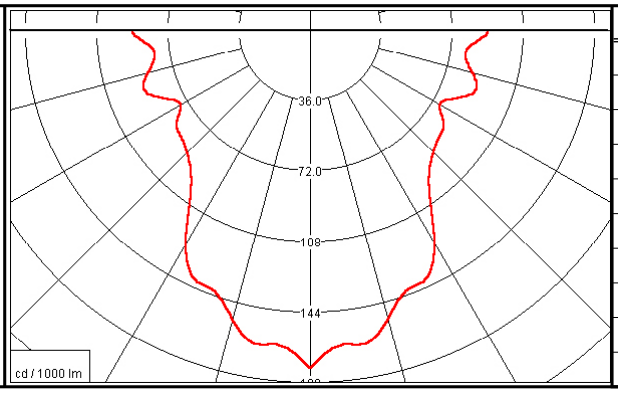
Angle	cd/1000lm	Angle	cd/1000lm
0	167	50	133
5	180	55	132
10	138	60	158
15	140	65	119
20	136	70	120
25	146	75	107
30	175	80	91.8
35	171	85	27.7
40	162	90	10.1
45	153		

Coefficients of Utilization - Zonal Cavity

%Effective Ceiling Cavity Reflectance(ρcc)	80			70			50			30			10			0
%Wall Reflectance(ρ_w)	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio RCR	20% Effective Floor Cavity Reflectance															
0	.87	.87	.87	.85	.85	.85	.81	.81	.81	.78	.78	.78	.75	.75	.75	.73
1	.76	.73	.70	.74	.71	.69	.71	.69	.67	.68	.66	.65	.66	.64	.63	.61
2	.67	.62	.57	.65	.61	.57	.63	.59	.55	.60	.57	.54	.58	.55	.53	.51
3	.59	.53	.48	.57	.52	.47	.55	.50	.47	.53	.49	.46	.51	.48	.45	.43
4	.52	.46	.41	.51	.45	.40	.49	.44	.40	.47	.43	.39	.46	.42	.39	.37
5	.46	.40	.35	.46	.39	.35	.44	.39	.35	.43	.38	.34	.41	.37	.34	.32
6	.42	.35	.31	.41	.35	.31	.40	.34	.30	.39	.34	.30	.38	.33	.30	.28
7	.38	.32	.27	.38	.32	.27	.36	.31	.27	.35	.30	.27	.34	.30	.27	.25
8	.35	.29	.25	.34	.29	.24	.33	.28	.24	.33	.28	.24	.32	.27	.24	.23
9	.32	.26	.22	.32	.26	.22	.31	.26	.22	.30	.25	.22	.29	.25	.22	.21
10	.30	.24	.20	.29	.24	.20	.29	.24	.20	.28	.23	.20	.27	.23	.20	.19

<EUL 3022>

+ Lamp : IL200 (2920lm)
+ With Guard



Angle	cd/1000lm	Angle	cd/1000lm
0	172	50	83.8
5	157	55	85.3
10	166	60	70.7
15	152	65	82.1
20	138	70	92.5
25	143	75	84.6
30	127	80	78.3
35	103	85	79.2
40	92.5	90	95.4
45	87.9		

Coefficients of Utilization - Zonal Cavity

%Effective Ceiling Cavity Reflectance(ρcc)	80			70			50			30			10			0
%Wall Reflectance(ρ_w)	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio RCR	20% Effective Floor Cavity Reflectance															
0	.70	.70	.70	.69	.69	.69	.66	.66	.66	.63	.63	.63	.60	.60	.60	.59
1	.60	.57	.54	.59	.56	.54	.56	.54	.52	.54	.52	.50	.52	.50	.49	.47
2	.52	.47	.43	.50	.46	.43	.48	.45	.42	.46	.43	.41	.44	.42	.40	.38
3	.45	.40	.36	.44	.39	.35	.42	.38	.35	.41	.37	.34	.39	.36	.33	.32
4	.40	.34	.30	.39	.34	.30	.38	.33	.30	.36	.32	.29	.35	.32	.29	.27
5	.36	.30	.26	.35	.30	.26	.34	.29	.26	.33	.29	.26	.32	.28	.25	.24
6	.33	.27	.23	.32	.27	.23	.31	.26	.23	.30	.26	.23	.29	.25	.23	.21
7	.30	.25	.21	.29	.24	.21	.29	.24	.21	.28	.24	.21	.27	.23	.20	.19
8	.28	.23	.19	.27	.22	.19	.26	.22	.19	.26	.22	.19	.25	.21	.19	.18
9	.26	.21	.18	.25	.21	.17	.25	.20	.17	.24	.20	.17	.23	.20	.17	.16
10	.24	.19	.16	.24	.19	.16	.23	.19	.16	.23	.19	.16	.22	.19	.16	.15

Copyright by NAMBUK Electric Co., LTD. 2004