RAB DESIGN

SUPER SONUP

The SUPER SONUP is a compact efficient luminaire, with optimum performance position to provide a even distribution of light. This unit comes with a hinged lens assembly for ease of lamp replacement. The SUPER SONUP is suitable for indoor and outdoor applications for rough service. These fixtures are ideal for security lighting in parking garages, walkways, entrances, tunnels and loading docks.

HOUSING Sheet metal housing, protected with a powder coat paint finish. The housing is both strong and light weight and has four 1/2" knockout wiring entries . One on the top of the fixture and three side of the housing.

LENS AND FRAME ASSEMBLY The lens frame is made of sheet metal and has a concealed hinge pins and one captive stainless screw fastener. The frame has a continuous neoprene gasket, providing optimum long-term performance. The lens is a polycarbonate, prismatic lens.

REFLECTOR The reflector is a heavy gauge steel with a semi-specular finish.

BALLAST All ballasts for Metal Halide are Tri-Tap for 100 and 150 watts. For High Pressure Sodium, 100 and 150 watts ballasts are available as 120NPF 120HPF and as Tri-Tap 120-277-347 volts.

LAMP All units come complete with lamp.

SOCKET Medium or Mogul base 4KV pulse-rated socket with a nickle-plated screw shell and a spring-loaded centre contact.

MOUNTING Ceiling mount only.

FINISH Standard finishes are Charcoal, Bronze and White. Custom colours are available upon request.

OPTIONS Quartz standby, and tamper proof hardware.

PROUDLY Made In Canada

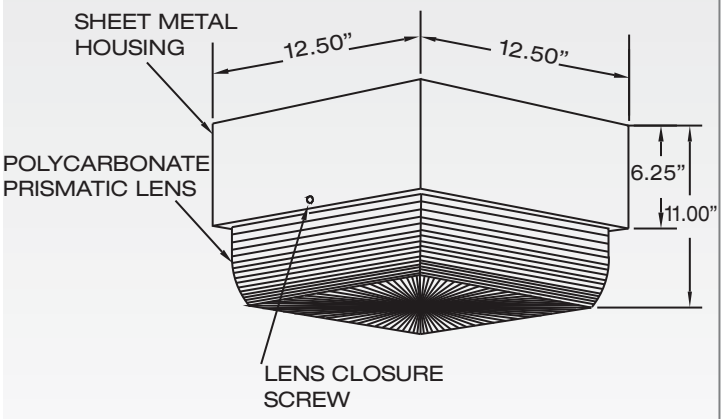
RAB DESIGN Lighting Inc. • 222 Islington Ave., Toronto, ON M8V 3W7 • TEL. 416-252-9454 / 800-268-0381 • FAX. 416-201-7322, 800-668-5517

Catalog Code

SNP-S	
	100HPS 150HPS 100MH 150MH
LAMP	
	120NPF* 120HPF* 120 277 347
VOLTAGE	
	CHA - CHARCOAL BZ - BRONZE WH - WHITE CC - CUSTOM COLOUR
FINISH	
	QRS - QUARTZ RESTRIKE TS - TAMPER PROOF SCREWS
OPTIONS	

* ONLY AVAILABLE FOR HIGH PRESSURE SODIUM

Dimensions



FILENAME: SNP150SM.IES
5009
DESIGN ELECTRICAL SON-UP INDOOR LUMINAIRE CAT. NO. SNP150-S-MH120
WITH SEMI-DIFFUSE REFLECTOR, PLASTIC PRISMATIC DROP LENS
ONE 150W CLEAR METAL HALIDE LAMP. LUMEN RATING = 13500 LMS.

SUMMARY DATA

EFFICIENCY (Total):	41.1 %
EFFICIENCY (Downlight):	37.6 %
EFFICIENCY (Uplight):	3.5 %
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0-Deg.):	1.74
SPACING CRITERION (90-Deg.):	2.17
LUMENS/LAMP:	13500
NO. OF LAMPS:	1

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	1078.4	8.0	19.4
0 - 40	1937.3	14.4	34.9
0 - 60	3749.9	27.8	67.6
60 - 90	1330.0	9.9	24.0
0 - 90	5079.9	37.6	91.6
90 - 180	468.6	3.5	8.4
0 - 180	5548.6	41.1	100.0

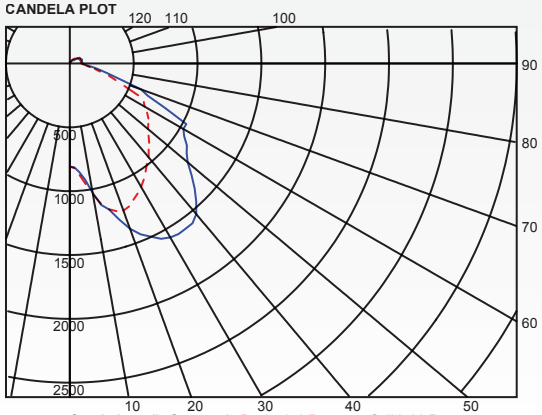
AVERAGE LUMINANCE
(Candelas / Square Meter)

Angle	0	22.5	45	67.5	90
0	10263	10263	10263	10263	10263
45	11188	12359	13715	15641	17603
55	10487	11457	13019	13623	15605
65	9431	11536	12423	12275	13085
75	4737	5380	5779	5804	6148
85	2882	3135	3212	3074	3188

COEFFICIENT OF UTILIZATION TABLE
Effective Floor cavity Reflectance = 20%

Pcc ...	80				70				50			30			10		0
Pw ...	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.48	.48	.48	.48	.47	.47	.47	.47	.44	.44	.44	.41	.41	.41	.39	.39	.39	.38
1	.43	.41	.39	.38	.42	.40	.38	.37	.38	.36	.35	.35	.34	.33	.33	.33	.32	.31
2	.39	.36	.33	.30	.38	.35	.32	.29	.32	.30	.28	.31	.29	.27	.29	.27	.26	.25
3	.36	.31	.27	.25	.34	.30	.27	.24	.28	.25	.23	.27	.24	.22	.25	.23	.22	.20
4	.32	.27	.23	.20	.31	.26	.23	.20	.25	.22	.19	.23	.21	.19	.22	.20	.18	.17
5	.29	.24	.20	.17	.28	.23	.20	.17	.22	.19	.16	.21	.18	.16	.20	.17	.15	.14
6	.27	.21	.18	.15	.26	.21	.17	.15	.20	.17	.14	.19	.16	.14	.18	.15	.13	.12
7	.25	.19	.15	.13	.24	.19	.15	.13	.18	.15	.12	.17	.14	.12	.16	.14	.12	.11
8	.23	.17	.14	.11	.22	.17	.14	.11	.16	.13	.11	.15	.13	.11	.15	.12	.10	.09
9	.22	.16	.12	.10	.21	.15	.12	.10	.15	.12	.10	.14	.11	.09	.13	.11	.09	.08
10	.20	.15	.11	.09	.19	.14	.11	.09	.14	.11	.09	.13	.10	.08	.12	.10	.08	.07

CANDELA PLOT



Quadralaterally Symmetric Dashed: 0 Degrees Solid: 90 Degrees

FILENAME: SNP150SH.IES
TEST NO. 5496
DESIGN ELECTRICAL SUPER SONUP LUMINAIRE CAT. NO. SNP-150-S-HPS120
WITH SEMI-SPECULAR REFLECTOR AND PRISMATIC REFRACTOR
ONE 150W CLEAR HPS LAMP. LUMEN RATING = 16000 LMS.

SUMMARY DATA

EFFICIENCY (Total):	43.1 %
EFFICIENCY (Downlight):	40.2 %
EFFICIENCY (Uplight):	2.9 %
CIE CLASSIFICATION:	DIRECT
SPACING CRITERION (0-Deg.):	1.56
SPACING CRITERION (90-Deg.):	1.92
LUMENS/LAMP:	16000
NO. OF LAMPS:	1

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Luminaire
0 - 30	1627.2	10.2	23.6
0 - 40	2804.7	17.5	40.7
0 - 60	5073.0	31.7	73.6
60 - 90	1353.6	8.5	19.6
0 - 90	6426.6	40.2	93.3
90 - 180	464.7	2.9	6.7
0 - 180	6891.2	43.1	100.0

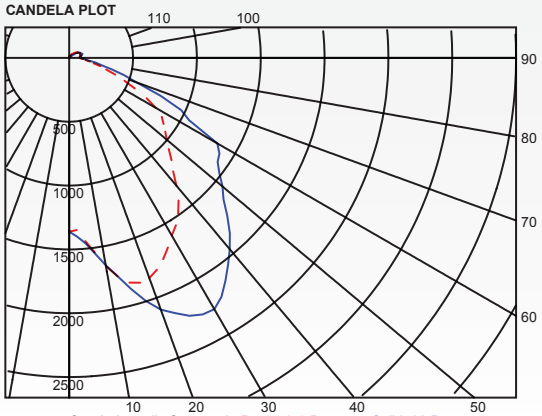
AVERAGE LUMINANCE
(Candelas / Square Meter)

Angle	0	22.5	45	67.5	90
0	17308	17308	17308	17308	17308
45	14202	15323	17396	19166	21949
55	12338	13367	15276	16525	19410
65	8814	10920	11135	12087	15089
75	4740	4803	5190	5606	6445
85	2664	2707	3053	2863	3104

COEFFICIENT OF UTILIZATION TABLE
Effective Floor cavity Reflectance = 20%

Pcc ...	80				70				50			30			10		0
Pw ...	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	.51	.51	.51	.51	.49	.49	.49	.49	.46	.46	.46	.44	.44	.44	.41	.41	.41	.40
1	.46	.44	.42	.40	.45	.43	.41	.40	.40	.39	.38	.38	.37	.36	.36	.35	.35	.33
2	.42	.38	.35	.33	.40	.37	.35	.32	.35	.33	.31	.33	.32	.30	.32	.30	.29	.28
3	.38	.34	.30	.27	.37	.33	.29	.27	.31	.28	.26	.29	.27	.25	.28	.26	.24	.23
4	.35	.30	.26	.23	.34	.29	.25	.23	.27	.24	.22	.26	.23	.21	.25	.23	.21	.20
5	.32	.26	.22	.20	.31	.26	.22	.19	.24	.21	.19	.23	.21	.18	.22	.20	.18	.17
6	.29	.24	.20	.17	.28	.23	.19	.17	.22	.19	.16	.21	.18	.16	.20	.18	.16	.15
7	.27	.21	.17	.15	.26	.21	.17	.15	.20	.17	.14	.19	.16	.14	.18	.16	.14	.13
8	.25	.19	.16	.13	.24	.19	.15	.13	.18	.15	.13	.17	.15	.12	.17	.14	.12	.11
9	.23	.18	.14	.12	.23	.17	.14	.12	.17	.14	.11	.16	.13	.11	.15	.13	.11	.10
10	.22	.16	.13	.11	.21	.16	.13	.10	.15	.12	.10	.15	.12	.10	.14	.12	.10	.09

CANDELA PLOT



Quadralaterally Symmetric Dashed: 0 Degrees Solid: 90 Degrees

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