



LIGHTING SCIENCES CANADA LTD.

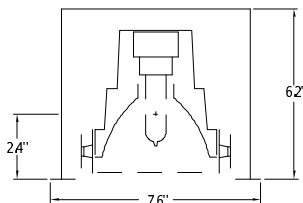
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Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC B859

EUREKA FLOODLIGHT LUMINAIRE CAT. NO. 12640-1X1-159X-120V-MG1270.E.8-WH-WH-WH
PATTERNED DIFFUSE REFLECTOR AND CLEAR GLASS LENS WITH CENTRAL PATTERNED SPOT
ONE 70W CLEAR T6 METAL HALIDE LAMP. LUMEN RATING = 7000 LMS.
ONE ADVANCE 120-277V ELECTRONIC MH BALLAST NO. IMH-70-D-BLS

FLOODLIGHT SUMMARY:

FIELD ANGLE	98.1H X 98.1V
(BASED ON 10% OF MAX. CP.)	
BEAM ANGLE	51.1H X 51.1V
(BASED ON 50% OF MAX. CP.)	
NEMA TYPE	5H X 5V
MAX. CANDLEPOWER	4339 CANDELA
ANGLE OF BEAM FROM AXIS	.0 DEGREES
BEAM IS SYMMETRIC ABOUT FLOODLIGHT AXIS	
AVG. MAX. CANDLEPOWER	3746 CANDELA
FIELD FLUX	3736.2 LUMENS
FIELD EFFICIENCY	53.4 PERCENT
BEAM FLUX	2131.9 LUMENS
BEAM EFFICIENCY	30.5 PERCENT
TOTAL FLUX	4067.6 LUMENS
TOTAL EFFICIENCY	58.1 PERCENT



PREPARED FOR:

EUREKA LIGHTING
MONTREAL, QUEBEC

CERTIFIED BY:

Charles Sison

DATE: Aug 24 2007

The above tabulation is computed in accordance with IES publication no. LM-35-1989, and defines the beam from the 50% maximum candlepower points and the field from the 10% maximum candlepower points. LM-35-1989 supersedes the 1970 document which defines the beam from the 10% maximum candlepower points.

Laboratory result may not be representative of field performance. Ballast factors have not been applied.

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CANDLEPOWER TRACE THROUGH ORIGIN
VERTICAL TRACE CANDELA HORIZONTAL TRACE

ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER
90.0	0.	.0	4339.	90.0	0.	.0	4339.
87.0	0.	-3.0	4264.	87.0	0.	-3.0	4264.
84.0	1.	-6.0	4102.	84.0	1.	-6.0	4102.
81.0	2.	-9.0	3864.	81.0	2.	-9.0	3864.
78.0	9.	-12.0	3563.	78.0	9.	-12.0	3563.
75.0	17.	-15.0	3218.	75.0	17.	-15.0	3218.
72.0	29.	-18.0	2887.	72.0	29.	-18.0	2887.
69.0	45.	-21.0	2562.	69.0	45.	-21.0	2562.
66.0	62.	-24.0	2296.	66.0	62.	-24.0	2296.
63.0	88.	-27.0	2055.	63.0	88.	-27.0	2055.
60.0	116.	-30.0	1791.	60.0	116.	-30.0	1791.
57.0	167.	-33.0	1542.	57.0	167.	-33.0	1542.
54.0	235.	-36.0	1373.	54.0	235.	-36.0	1373.
51.0	331.	-39.0	1221.	51.0	331.	-39.0	1221.
48.0	490.	-42.0	1045.	48.0	490.	-42.0	1045.
45.0	780.	-45.0	780.	45.0	780.	-45.0	780.
42.0	1045.	-48.0	490.	42.0	1045.	-48.0	490.
39.0	1221.	-51.0	331.	39.0	1221.	-51.0	331.
36.0	1373.	-54.0	235.	36.0	1373.	-54.0	235.
33.0	1542.	-57.0	167.	33.0	1542.	-57.0	167.
30.0	1791.	-60.0	116.	30.0	1791.	-60.0	116.
27.0	2055.	-63.0	88.	27.0	2055.	-63.0	88.
24.0	2296.	-66.0	62.	24.0	2296.	-66.0	62.
21.0	2562.	-69.0	45.	21.0	2562.	-69.0	45.
18.0	2887.	-72.0	29.	18.0	2887.	-72.0	29.
15.0	3218.	-75.0	17.	15.0	3218.	-75.0	17.
12.0	3563.	-78.0	9.	12.0	3563.	-78.0	9.
9.0	3864.	-81.0	2.	9.0	3864.	-81.0	2.
6.0	4102.	-84.0	1.	6.0	4102.	-84.0	1.
3.0	4264.	-87.0	0.	3.0	4264.	-87.0	0.
.0	4339.	-90.0	0.	.0	4339.	-90.0	0.

- UPPER -

- LOWER -

- RIGHT -

- LEFT -

POLAR AXIS HORIZONTAL
MAXIMUM CANDLEPOWER OCCURS AT ORIGIN

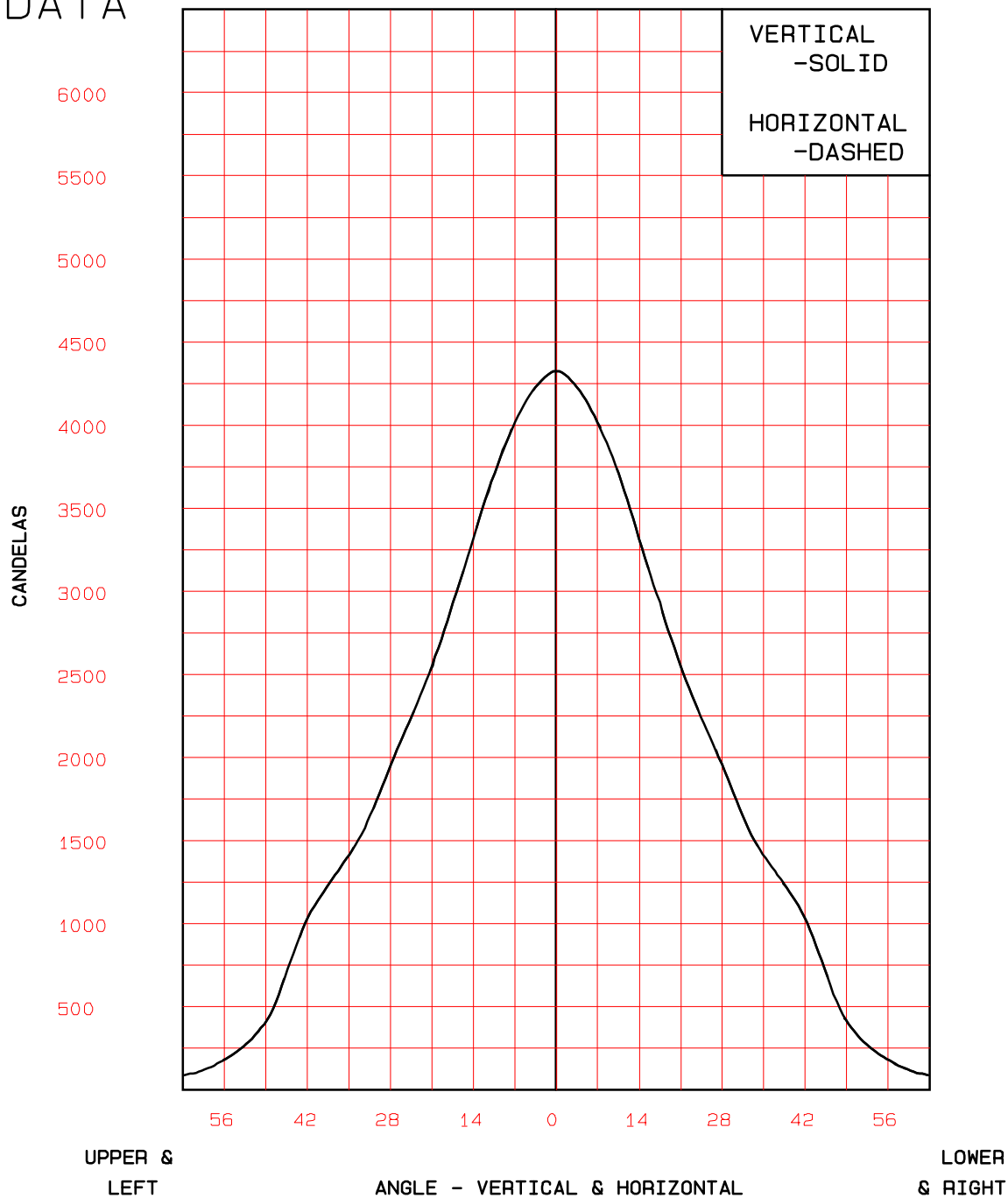


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FLOODLIGHT DATA

CANDLEPOWER TRACE THROUGH ORIGIN





CERTIFIED TEST REPORT NO. LSC B859

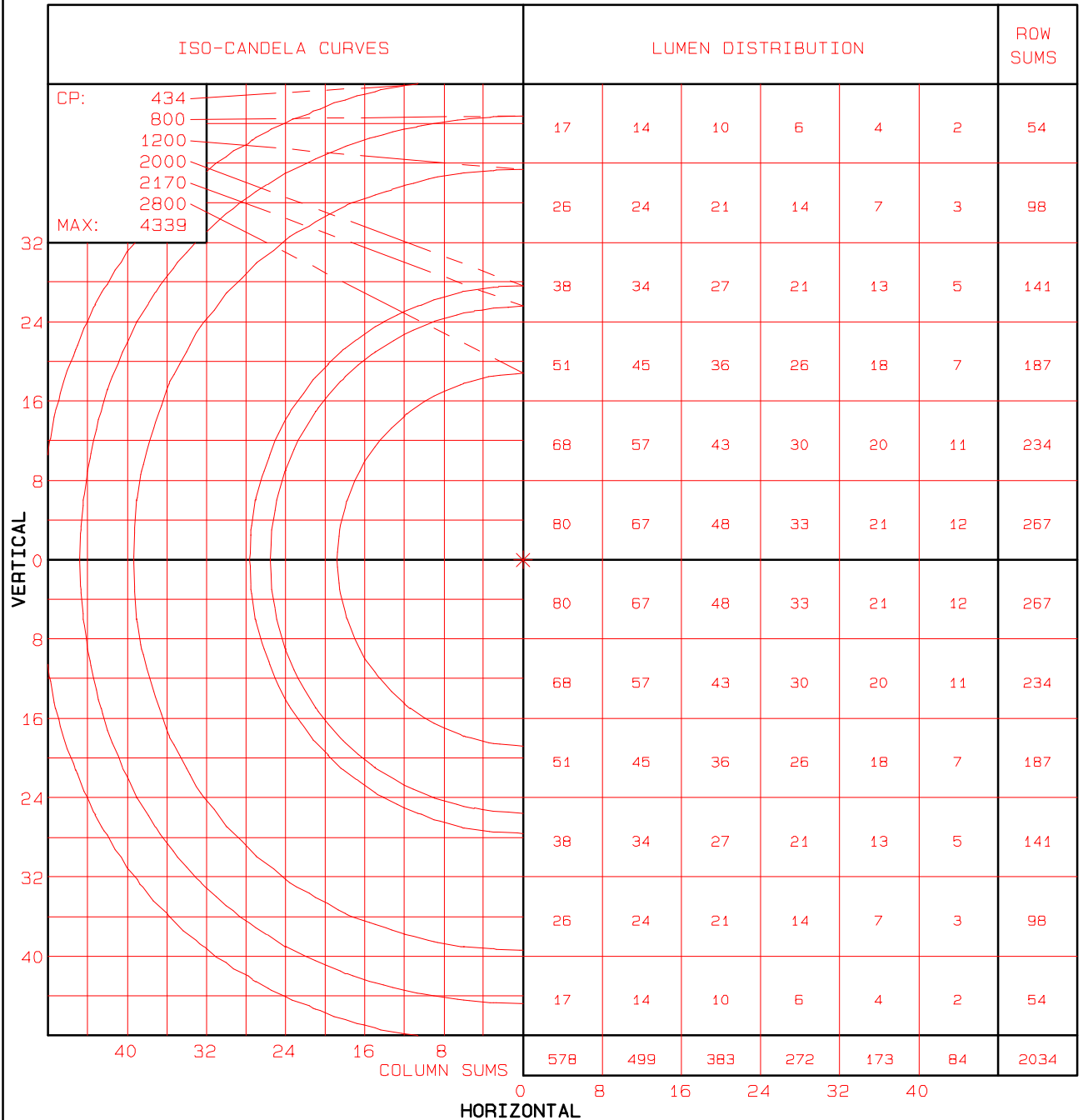
FLOODLIGHT DATA

EUREKA FLOODLIGHT LUMINAIRE CAT. NO. 12640-1X1-159X-120V-MG1270.E.8-WH-WH-WH
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ONE 70W CLEAR T6 METAL HALIDE LAMP. LUMEN RATING = 7000 LMS.

ONE ADVANCE 120-277V ELECTRONIC MH BALLAST NO. IMH-70-D-BLS

ISOCANDELA DIAGRAM



CERTIFIED TEST REPORT NO. LSC B859
STANDARD TABLE OF CANDELAS AND LUMENS, IN ACCORDANCE WITH IES PROCEDURES

ANGULAR DATA IS SHOWN WITH THE POLAR AXIS HORIZONTAL.

LUMINOUS INTENSITY IN CANDELAS AT CENTERS OF ZONES.

LUMINOUS FLUX IN LUMENS IN ZONES.

***** MULTIPLY CANDELAS BY 1 *****

LUMEN RATING = 7000 LMS.

RIGHT HAND COLUMN SHOWS LUMEN TOTAL FOR ONE SIDE ONLY, 0 TO 90 DEGREES

VERT ANG.	HORIZONTAL ANGLE - DEGREES											
	0.	8.	16.	24.	32.	40.	48.	56.	64.	72.	80.	88.
88.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
80.	14.	14.	12.	10.	6.	2.	1.	1.	0.	0.	0.	0.
	.28	.26	.22	.17	.10	.03	.02	.01	.00	.00	.00	.00
72.	51.	48.	43.	35.	27.	20.	13.	5.	1.	0.	0.	0.
	1.00	.92	.78	.61	.43	.28	.15	.05	.01	.00	.00	.00
64.	115.	109.	98.	79.	61.	46.	29.	16.	5.	1.	0.	0.
	2.24	2.08	1.80	1.37	.96	.64	.34	.15	.03	.00	.00	.00
56.	291.	264.	217.	166.	115.	80.	53.	29.	13.	1.	0.	0.
	5.66	5.03	3.97	2.86	1.81	1.13	.64	.28	.09	.01	.00	.00
48.	860.	751.	524.	346.	224.	135.	80.	46.	20.	2.	0.	0.
	16.7	14.3	9.6	5.9	3.5	1.9	1.0	.4	.1	.0	.0	.0
40.	1363.	1285.	1139.	835.	421.	224.	115.	61.	27.	6.	0.	0.
	26.5	24.5	20.9	14.4	6.6	3.1	1.4	.6	.2	.0	.0	.0
32.	1947.	1767.	1488.	1232.	835.	346.	166.	79.	35.	10.	0.	0.
	37.8	33.7	27.2	21.2	13.2	4.8	2.0	.8	.3	.0	.0	.0
24.	2621.	2360.	1971.	1488.	1139.	524.	217.	98.	43.	12.	0.	0.
	50.9	45.0	36.1	25.6	18.0	7.3	2.6	1.0	.3	.1	.0	.0
16.	3494.	3009.	2360.	1767.	1285.	751.	264.	109.	48.	14.	0.	0.
	67.9	57.3	43.2	30.4	20.2	10.5	3.2	1.1	.4	.1	.0	.0
8.	4125.	3494.	2621.	1947.	1363.	860.	291.	115.	51.	14.	0.	0.
	80.2	66.6	48.0	33.5	21.5	12.0	3.5	1.1	.4	.1	.0	.0
0.	4125.	3494.	2621.	1947.	1363.	860.	291.	115.	51.	14.	0.	0.
	80.2	66.6	48.0	33.5	21.5	12.0	3.5	1.1	.4	.1	.0	.0
-8.	3494.	3009.	2360.	1767.	1285.	751.	264.	109.	48.	14.	0.	0.
	67.9	57.3	43.2	30.4	20.2	10.5	3.2	1.1	.4	.1	.0	.0
-16.	2621.	2360.	1971.	1488.	1139.	524.	217.	98.	43.	12.	0.	0.
	50.9	45.0	36.1	25.6	18.0	7.3	2.6	1.0	.3	.1	.0	.0
-24.	1947.	1767.	1488.	1232.	835.	346.	166.	79.	35.	10.	0.	0.
	37.8	33.7	27.2	21.2	13.2	4.8	2.0	.8	.3	.0	.0	.0
-32.	1363.	1285.	1139.	835.	421.	224.	115.	61.	27.	6.	0.	0.
	26.5	24.5	20.9	14.4	6.6	3.1	1.4	.6	.2	.0	.0	.0
-40.	860.	751.	524.	346.	224.	135.	80.	46.	20.	2.	0.	0.
	16.7	14.3	9.6	5.9	3.5	1.9	1.0	.4	.1	.0	.0	.0
-48.	291.	264.	217.	166.	115.	80.	53.	29.	13.	1.	0.	0.
	5.66	5.03	3.97	2.86	1.81	1.13	.64	.28	.09	.01	.00	.00
-56.	115.	109.	98.	79.	61.	46.	29.	16.	5.	1.	0.	0.
	2.24	2.08	1.80	1.37	.96	.64	.34	.15	.03	.00	.00	.00
-64.	51.	48.	43.	35.	27.	20.	13.	5.	1.	0.	0.	0.
	1.00	.92	.78	.61	.43	.28	.15	.05	.01	.00	.00	.00

-72.	14.	14.	12.	10.	6.	2.	1.	1.	0.	0.	0.	1.08
	.28	.26	.22	.17	.10	.03	.02	.01	.00	.00	.00	
-80.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	
	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.04
-88.												
	578.	499.	383.	272.	173.	84.	29.	11.	4.	1.	0.	

BOTTOM ROW SHOWS LUMEN SUMMATION OF VERTICAL ZONES, +90 TO - 90 DEGREES