



LIGHTING SCIENCES CANADA LTD.

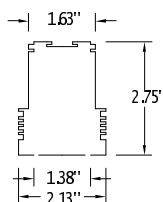
160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC E758

RAB DESIGN LINEAR LED LUMINAIRE CAT. NO. RD-L1-8-WHT-W-500mm
WITH INDIVIDUAL LED WIDE LENS OPTICS
EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 572 LMS.

FLOODLIGHT SUMMARY:

FIELD ANGLE	64.2H X 63.9V
(BASED ON 10% OF MAX. CP.)	
BEAM ANGLE	35.7H X 35.9V
(BASED ON 50% OF MAX. CP.)	
NEMA TYPE	4H X 4V
MAX. CANDLEPOWER	1283 CANDELA
MAX. CP. VERT. ANGLE	-2.5 DEGREES
MAX. CP. HORIZ. ANGLE	.0 DEGREES
AVG. MAX. CANDLEPOWER	1213 CANDELA
FIELD FLUX	493.7 LUMENS
FIELD EFFICACY	48.1 LMS/WATT
BEAM FLUX	332.2 LUMENS
BEAM EFFICACY	32.3 LMS/WATT
TOTAL FLUX	571.8 LUMENS
TOTAL EFFICACY	55.7 LMS/WATT



PREPARED FOR:

RAB DESIGN LIGHTING INC.
TORONTO, ONTARIO

CERTIFIED BY:

Charles Lison

DATE: Jan 28 2011

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.
ABSOLUTE PHOTOMETRY TAKEN.

LIGHTING SCIENCES CANADA LTD.
160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC E758

RAB DESIGN LINEAR LED LUMINAIRE CAT. NO. RD-L1-8-WHT-W-500mm
WITH INDIVIDUAL LED WIDE LENS OPTICS
EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 572 LMS.

CANDLEPOWER TRACE THROUGH ORIGIN
VERTICAL TRACE CANDELA HORIZONTAL TRACE

ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER
90.0	0.	.0	1276.	90.0	0.	.0	1276.
87.0	0.	-3.0	1278.	87.0	0.	-3.0	1267.
84.0	0.	-6.0	1234.	84.0	0.	-6.0	1227.
81.0	0.	-9.0	1146.	81.0	1.	-9.0	1142.
78.0	1.	-12.0	1005.	78.0	2.	-12.0	1006.
75.0	1.	-15.0	827.	75.0	2.	-15.0	831.
72.0	1.	-18.0	639.	72.0	3.	-18.0	645.
69.0	2.	-21.0	472.	69.0	4.	-21.0	479.
66.0	3.	-24.0	336.	66.0	6.	-24.0	345.
63.0	4.	-27.0	235.	63.0	7.	-27.0	242.
60.0	5.	-30.0	160.	60.0	9.	-30.0	165.
57.0	7.	-33.0	112.	57.0	10.	-33.0	114.
54.0	9.	-36.0	75.	54.0	12.	-36.0	78.
51.0	13.	-39.0	49.	51.0	15.	-39.0	54.
48.0	17.	-42.0	32.	48.0	19.	-42.0	37.
45.0	25.	-45.0	19.	45.0	26.	-45.0	26.
42.0	36.	-48.0	13.	42.0	37.	-48.0	19.
39.0	52.	-51.0	9.	39.0	54.	-51.0	15.
36.0	75.	-54.0	6.	36.0	78.	-54.0	12.
33.0	111.	-57.0	5.	33.0	114.	-57.0	10.
30.0	160.	-60.0	3.	30.0	165.	-60.0	9.
27.0	235.	-63.0	3.	27.0	242.	-63.0	7.
24.0	338.	-66.0	2.	24.0	345.	-66.0	6.
21.0	475.	-69.0	1.	21.0	479.	-69.0	4.
18.0	639.	-72.0	1.	18.0	645.	-72.0	3.
15.0	820.	-75.0	1.	15.0	831.	-75.0	2.
12.0	995.	-78.0	0.	12.0	1006.	-78.0	2.
9.0	1138.	-81.0	0.	9.0	1142.	-81.0	1.
6.0	1226.	-84.0	0.	6.0	1227.	-84.0	0.
3.0	1258.	-87.0	0.	3.0	1267.	-87.0	0.
.0	1276.	-90.0	0.	.0	1276.	-90.0	0.

- UPPER -

- LOWER -

- RIGHT -

- LEFT -

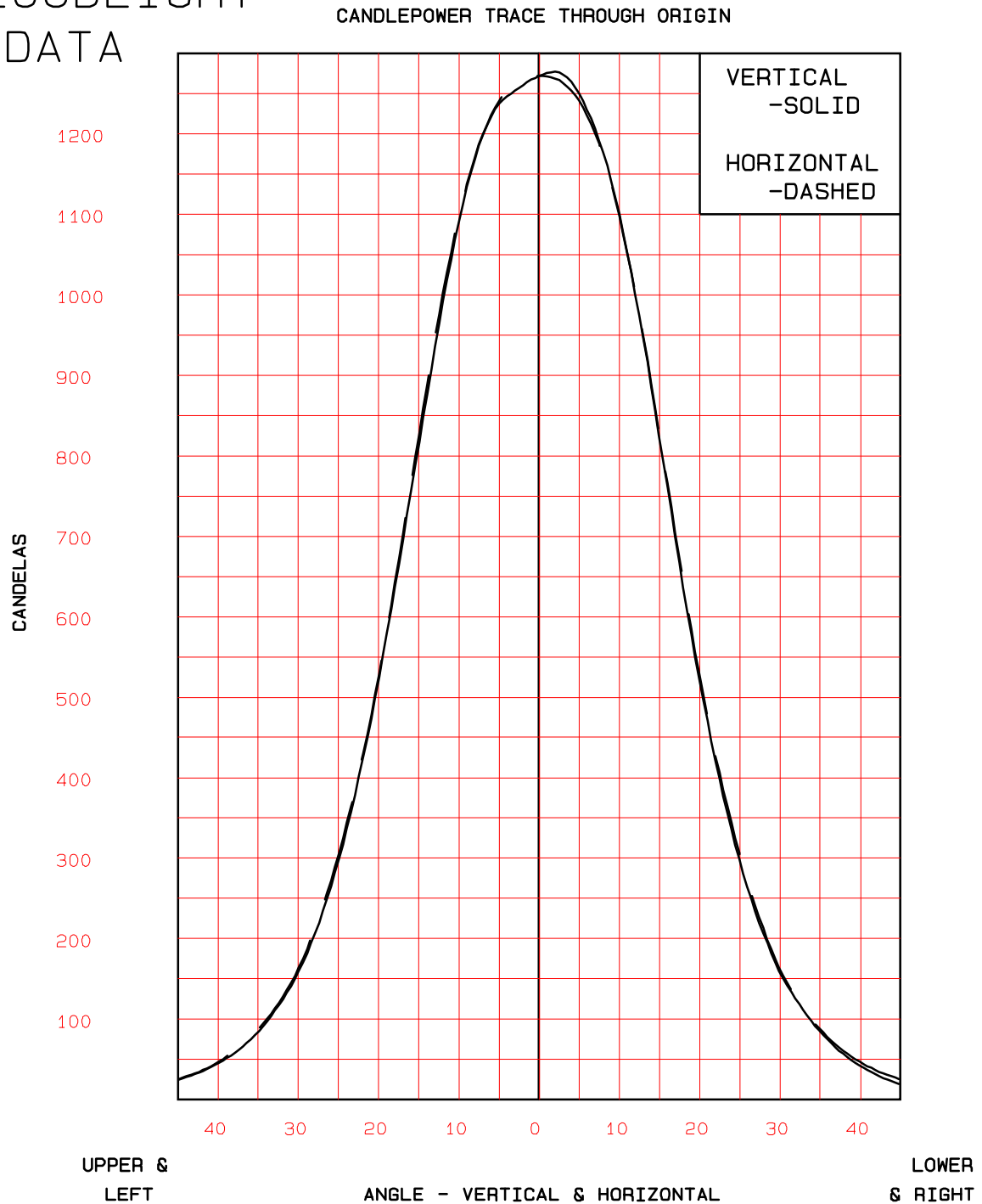
POLAR AXIS HORIZONTAL



CERTIFIED TEST REPORT NO. LSCE758

RAB DESIGN LINEAR LED LUMINAIRE CAT. NO. RD-L1-8-WHT-W-500mm
WITH INDIVIDUAL LED WIDE LENS OPTICS
EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 572 LMS.

FLOODLIGHT DATA





CERTIFIED TEST REPORT NO. LSC E758

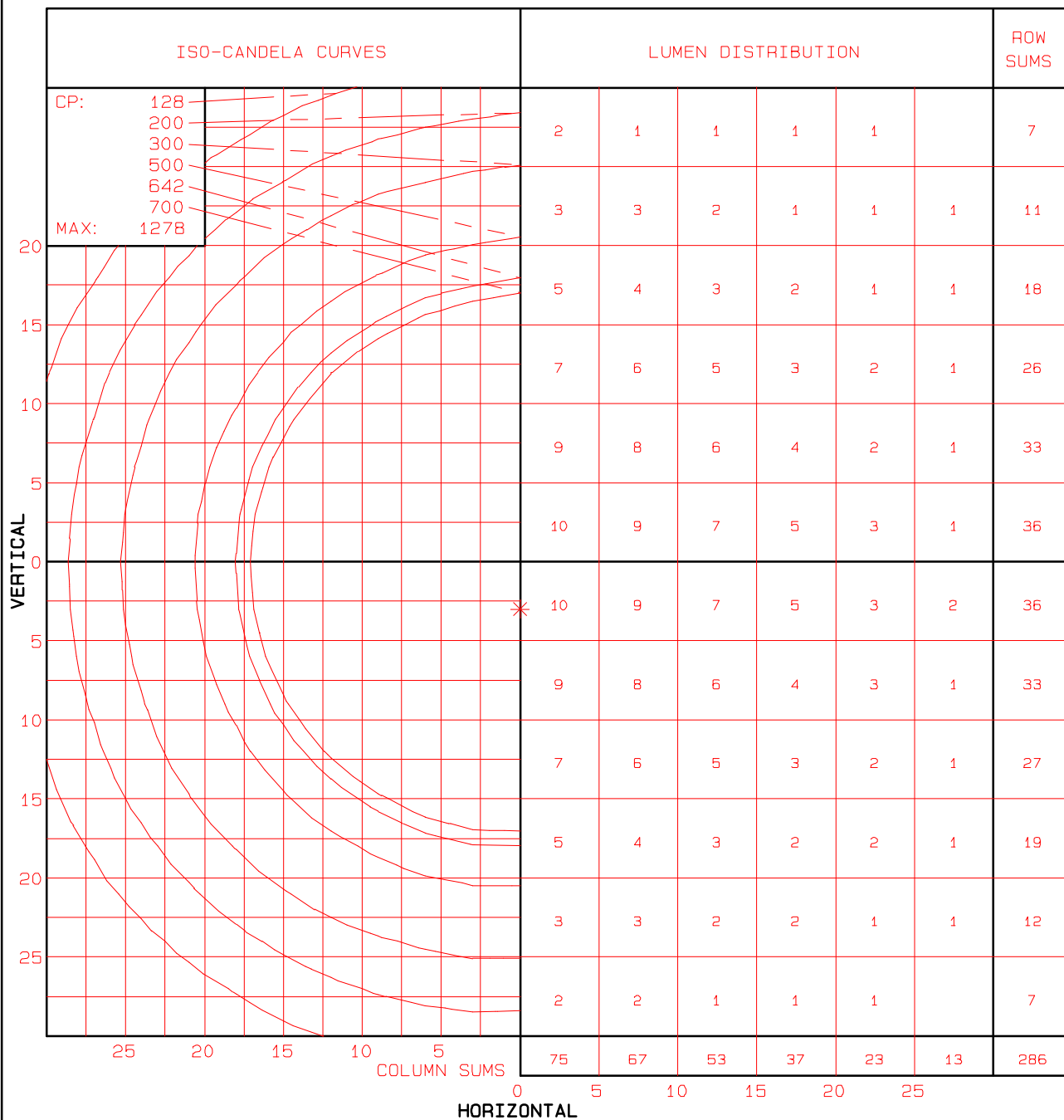
FLOODLIGHT DATA

RAB DESIGN LINEAR LED LUMINAIRE CAT. NO. RD-L1-8-WHT-W-500mm

WITH INDIVIDUAL LED WIDE LENS OPTICS

EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 572 LMS.

ISOCANDELA DIAGRAM



CERTIFIED TEST REPORT NO. LSC E758
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 OUTPUT = 572 LMS.

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

VERT ANG.	HORIZONTAL ANGLE - DEGREES																	
	0.	5.	10.	15.	20.	25.	30.	35.	40.	45.	50.	55.	60.	65.	70.	75.	80.	85.
90.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
85.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
80.	1.	1.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
75.	1.	1.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	.01	.01	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
70.	2.	2.	2.	2.	2.	2.	2.	1.	2.	1.	1.	1.	0.	0.	0.	0.	0.	0.
	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00
65.	4.	4.	4.	4.	3.	4.	3.	3.	2.	2.	2.	1.	1.	1.	0.	0.	0.	0.
	.03	.03	.03	.03	.02	.02	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00
60.	6.	6.	6.	6.	5.	5.	5.	4.	4.	3.	3.	2.	2.	1.	1.	0.	0.	0.
	.05	.05	.05	.04	.04	.04	.03	.03	.02	.02	.01	.01	.01	.01	.00	.00	.00	.00
55.	11.	11.	10.	9.	9.	9.	8.	7.	6.	5.	4.	3.	2.	2.	1.	1.	0.	0.
	.08	.08	.08	.07	.06	.06	.05	.04	.03	.03	.02	.01	.01	.01	.00	.00	.00	.00
50.	18.	17.	16.	15.	13.	12.	11.	10.	8.	7.	6.	5.	3.	2.	2.	1.	0.	0.
	.14	.13	.12	.11	.09	.08	.07	.06	.04	.04	.03	.02	.01	.01	.00	.00	.00	.00
45.	32.	31.	28.	24.	20.	17.	14.	12.	10.	9.	7.	6.	4.	3.	2.	1.	0.	0.
	.25	.23	.21	.17	.14	.11	.09	.07	.06	.04	.03	.02	.01	.01	.00	.00	.00	.00
40.	60.	56.	49.	40.	31.	24.	18.	15.	12.	10.	8.	7.	5.	3.	2.	1.	0.	0.
	.45	.42	.36	.29	.22	.16	.12	.09	.07	.05	.04	.03	.02	.01	.00	.00	.00	.00
35.	112.	104.	88.	70.	52.	37.	26.	19.	14.	12.	9.	7.	6.	4.	2.	1.	1.	1.
	.85	.78	.65	.50	.37	.25	.17	.11	.08	.06	.04	.03	.02	.01	.00	.00	.00	.00
30.	211.	191.	155.	119.	83.	57.	37.	25.	17.	13.	10.	8.	6.	4.	2.	2.	1.	1.
	1.61	1.44	1.15	.86	.59	.38	.24	.15	.10	.07	.05	.03	.02	.01	.01	.00	.00	.00
25.	383.	342.	271.	199.	135.	85.	53.	32.	21.	15.	11.	9.	6.	5.	3.	2.	1.	1.
	2.91	2.58	2.02	1.44	.95	.58	.34	.19	.12	.08	.05	.03	.02	.01	.01	.00	.00	.00
20.	642.	568.	444.	313.	202.	123.	72.	42.	25.	16.	12.	9.	7.	5.	3.	2.	1.	1.
	4.88	4.29	3.30	2.27	1.42	.83	.46	.25	.14	.08	.05	.04	.02	.01	.01	.00	.00	.00
15.	940.	831.	654.	451.	281.	162.	91.	51.	29.	18.	13.	10.	7.	5.	3.	2.	1.	1.
	7.15	6.27	4.86	3.27	1.97	1.09	.59	.31	.16	.09	.06	.04	.02	.01	.01	.00	.00	.00
10.	1166.	1064.	845.	580.	354.	200.	109.	59.	33.	19.	13.	10.	7.	5.	3.	2.	1.	1.

5.		8.87	8.03	6.28	4.21	2.49	1.35#	.70	.36	.18	.10	.06	.04	.03	.02	.01	.00	.00	32.73
0.		1262.	1176.	963.	661.	398.	222.#	119.	63.	34.	20.	13.	10.	8.	5.	3.	2.	1.	36.33
-5.		1262.	1181.	965.	665.	401.	223.#	120.	64.	34.	20.	14.	10.	8.	5.	3.	2.	1.	36.46
-10.		1188.	1082.	862.	592.	364.	207.#	112.	60.	33.	19.	14.	10.	7.	5.	3.	2.	1.	33.39
-15.		972.	860.	676.	469.	293.	170.#	96.	53.	30.	18.	13.	9.	7.	5.	3.	2.	1.	26.88
-20.		669.	593.	465.	330.	217.	131.#	77.	44.	26.	16.	12.	9.	7.	5.	3.	2.	1.	18.96
-25.		400.	361.	289.	215.	146.#	92.	57.	34.	22.	15.	11.	9.	6.	5.	3.	2.	1.	12.03
-30.		222.	205.	169.	129.#	91.	61.	40.	26.	17.	13.	10.	8.	6.	4.	2.	1.	1.	7.18
-35.		119.	112.	95.	76.	56.	40.	27.	19.	14.	11.	9.	7.	5.	4.	2.	1.	1.	4.21
-40.		62.	59.	51.	42.	33.	25.	19.	15.	11.	10.	8.	6.	4.	3.	2.	1.	0.	2.41
-45.		30.	29.	26.	22.	19.	16.	13.	11.	9.	7.	6.	5.	3.	3.	1.	1.	0.	1.35
-50.		14.	14.	13.	12.	11.	10.	9.	8.	7.	6.	5.	4.	2.	2.	1.	0.	0.	.76
-55.		7.	8.	7.	7.	6.	6.	6.	5.	5.	4.	3.	3.	2.	1.	1.	0.	0.	.45
-60.		4.	5.	5.	5.	4.	4.	4.	3.	3.	3.	2.	2.	1.	1.	0.	0.	0.	.30
-65.		3.	3.	3.	3.	2.	3.	2.	2.	2.	1.	1.	1.	1.	0.	0.	0.	0.	.18
-70.		1.	2.	1.	2.	1.	1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	.09
-75.		1.	1.	1.	1.	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.05
-80.		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.00
-85.		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.00
-90.		0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	.00

75. 67. 53. 37. 23. 13. 7. 4. 2. 2. 1. 1. 0. 0. 0. 0. 0.

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

LIGHTING SCIENCES CANADA LTD.
160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC E758

RAB DESIGN LINEAR LED LUMINAIRE CAT. NO. RD-L1-8-WHT-W-500mm
WITH INDIVIDUAL LED WIDE LENS OPTICS
EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 572 LMS.

SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 30 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.087 ARMS
INPUT WATTAGE: 10.27
POWER FACTOR: 0.984

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.308
CIE 1931-y: 0.312
CORRELATED COLOUR TEMPERATURE: 6920 DEG. K
COLOUR RENDERING INDEX: 74.1%