



LIGHTING SCIENCES CANADA LTD.

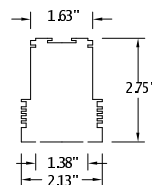
160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
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CERTIFIED TEST REPORT NO. LSC E756

RAB DESIGN LINEAR LED LUMINAIRE CAT. NO. RD-L1-8-WHT-N-500mm
WITH INDIVIDUAL LED NARROW LENS OPTICS
EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 606 LMS.

FLOODLIGHT SUMMARY:

FIELD ANGLE	25.3H X 25.7V
(BASED ON 10% OF MAX. CP.)	
BEAM ANGLE	12.8H X 12.8V
(BASED ON 50% OF MAX. CP.)	
NEMA TYPE	2H X 2V
MAX. CANDLEPOWER	8659 CANDELA
MAX. CP. VERT. ANGLE	.0 DEGREES
MAX. CP. HORIZ. ANGLE	.0 DEGREES
AVG. MAX. CANDLEPOWER	7679 CANDELA
FIELD FLUX	486.3 LUMENS
FIELD EFFICACY	45.7 LMS/WATT
BEAM FLUX	279.6 LUMENS
BEAM EFFICACY	26.3 LMS/WATT
TOTAL FLUX	606.2 LUMENS
TOTAL EFFICACY	57.0 LMS/WATT



PREPARED FOR:

RAB DESIGN LIGHTING INC.
TORONTO, ONTARIO

CERTIFIED BY:

Charles Sisson

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

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CANDLEPOWER TRACE THROUGH ORIGIN
VERTICAL TRACE CANDELA HORIZONTAL TRACE

ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER	ANGLE	CANDLEPOWER
30.0	22.	.0	8659.	30.0	19.	.0	8659.
29.0	24.	-1.0	8476.	29.0	23.	-1.0	8556.
28.0	27.	-2.0	7981.	28.0	25.	-2.0	8095.
27.0	31.	-3.0	7276.	27.0	30.	-3.0	7396.
26.0	37.	-4.0	6445.	26.0	35.	-4.0	6545.
25.0	43.	-5.0	5561.	25.0	42.	-5.0	5610.
24.0	52.	-6.0	4698.	24.0	51.	-6.0	4673.
23.0	61.	-7.0	3895.	23.0	62.	-7.0	3794.
22.0	74.	-8.0	3172.	22.0	76.	-8.0	3011.
21.0	89.	-9.0	2547.	21.0	95.	-9.0	2347.
20.0	109.	-10.0	2018.	20.0	118.	-10.0	1802.
19.0	136.	-11.0	1578.	19.0	149.	-11.0	1366.
18.0	173.	-12.0	1219.	18.0	190.	-12.0	1028.
17.0	225.	-13.0	934.	17.0	247.	-13.0	769.
16.0	296.	-14.0	707.	16.0	324.	-14.0	575.
15.0	396.	-15.0	535.	15.0	431.	-15.0	431.
14.0	534.	-16.0	402.	14.0	575.	-16.0	324.
13.0	723.	-17.0	305.	13.0	769.	-17.0	247.
12.0	979.	-18.0	232.	12.0	1028.	-18.0	190.
11.0	1319.	-19.0	180.	11.0	1366.	-19.0	149.
10.0	1759.	-20.0	141.	10.0	1802.	-20.0	118.
9.0	2310.	-21.0	111.	9.0	2347.	-21.0	95.
8.0	2983.	-22.0	89.	8.0	3011.	-22.0	76.
7.0	3770.	-23.0	71.	7.0	3794.	-23.0	62.
6.0	4658.	-24.0	58.	6.0	4673.	-24.0	51.
5.0	5616.	-25.0	46.	5.0	5610.	-25.0	42.
4.0	6580.	-26.0	39.	4.0	6545.	-26.0	35.
3.0	7420.	-27.0	32.	3.0	7396.	-27.0	30.
2.0	8040.	-28.0	27.	2.0	8095.	-28.0	25.
1.0	8454.	-29.0	24.	1.0	8556.	-29.0	23.
.0	8659.	-30.0	20.	.0	8659.	-30.0	19.

- UPPER -

- LOWER -

- RIGHT -

- LEFT -

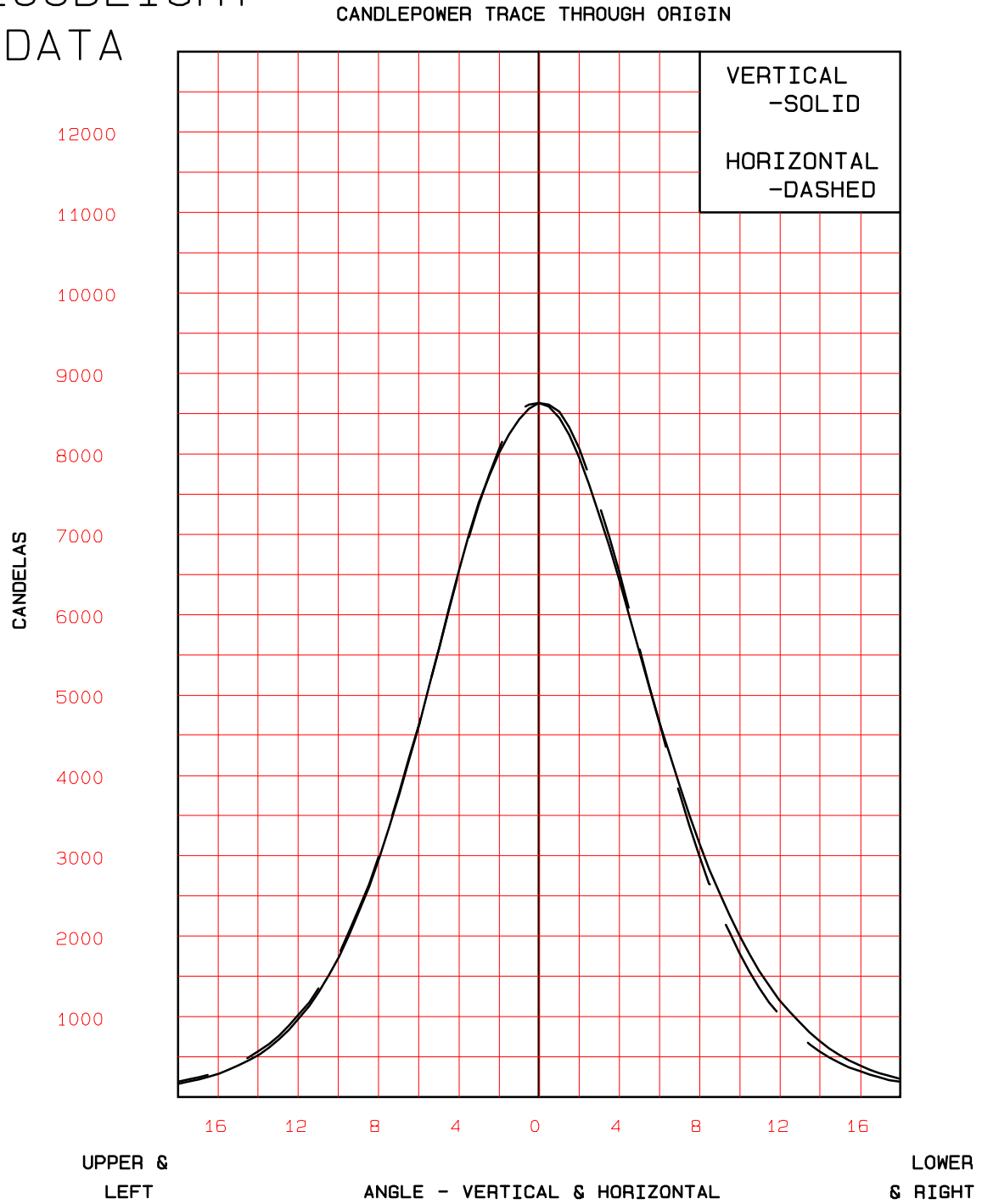
POLAR AXIS HORIZONTAL



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FLOODLIGHT DATA





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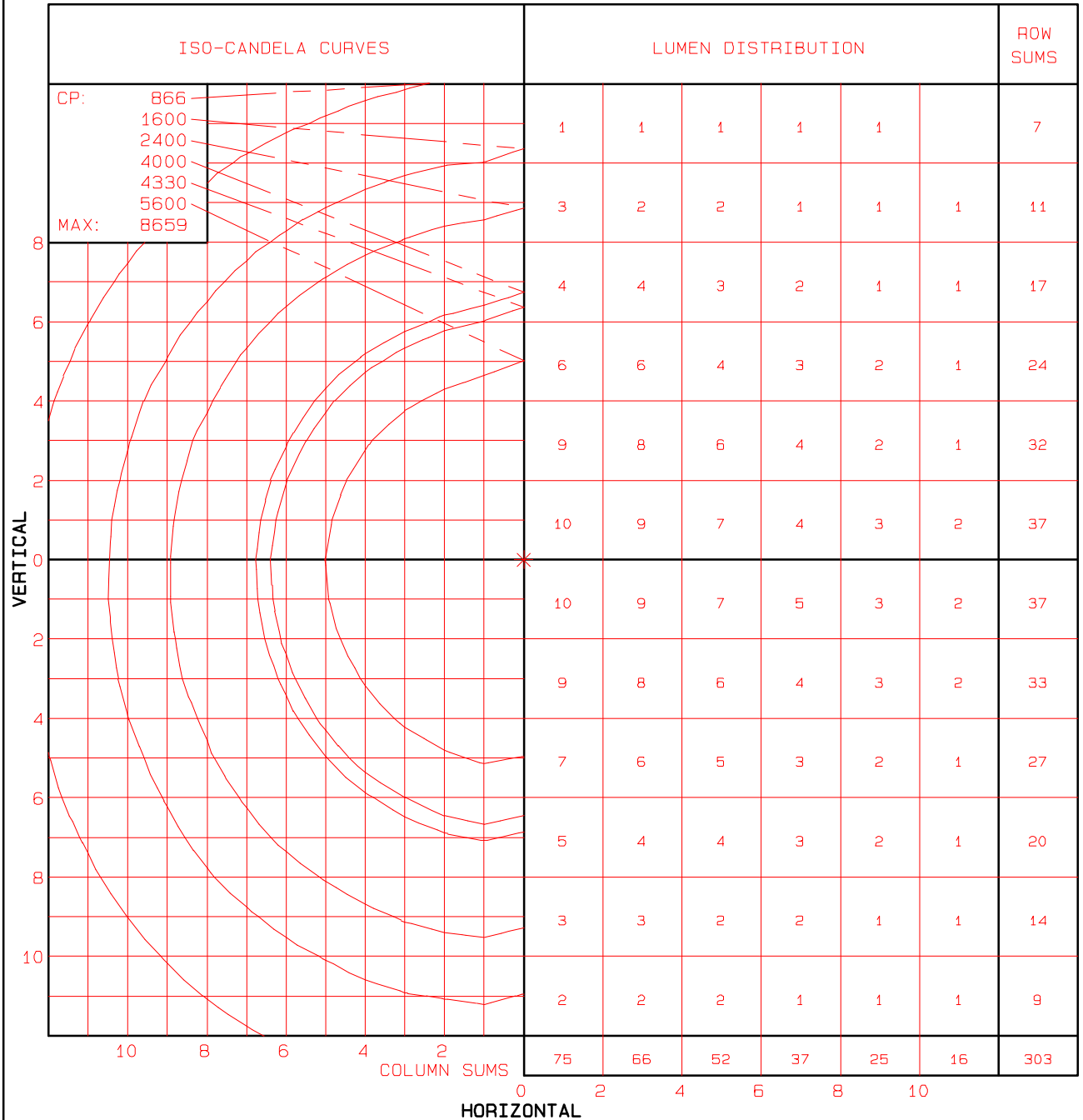
FLOODLIGHT DATA

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

WITH INDIVIDUAL LED NARROW LENS OPTICS

EIGHT WHITE PHILIPS 1.2W LEDS. LUMEN OUTPUT = 606 LMS.

ISOCANDELA DIAGRAM



CERTIFIED TEST REPORT NO. LSC E756
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 = 606 LMS.

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

VERT ANG.	HORIZONTAL ANGLE - DEGREES																	
	0.	2.	4.	6.	8.	10.	12.	14.	16.	18.	20.	22.	24.	26.	28.	30.	32.	34.
34.	15.	14.	14.	14.	13.	13.	12.	12.	11.	10.	9.	9.	9.	8.	8.	7.	7.	
	.02	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.28
32.	19.	18.	17.	17.	16.	15.	14.	13.	12.	11.	10.	9.	9.	9.	8.	8.	8.	
	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.32
30.	23.	22.	21.	20.	19.	18.	17.	16.	15.	13.	12.	11.	10.	10.	9.	8.	8.	
	.03	.03	.03	.02	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.01	.36
28.	30.	29.	28.	26.	24.	22.	20.	18.	17.	15.	14.	13.	12.	10.	10.	9.	8.	
	.04	.04	.03	.03	.03	.03	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.43
26.	42.	40.	38.	35.	32.	29.	25.	22.	20.	18.	16.	14.	13.	12.	10.	9.	9.	
	.05	.05	.05	.04	.04	.03	.03	.03	.02	.02	.02	.02	.01	.01	.01	.01	.01	.52
24.	59.	56.	53.	49.	43.	38.	33.	28.	24.	21.	18.	16.	14.	13.	11.	10.	9.	
	.07	.07	.06	.06	.05	.05	.04	.03	.03	.02	.02	.02	.02	.01	.01	.01	.01	.66
22.	86.	81.	76.	69.	61.	52.	44.	37.	30.	25.	21.	18.	16.	13.	12.	11.	10.	
	.11	.10	.09	.08	.07	.06	.05	.04	.04	.03	.02	.02	.02	.01	.01	.01	.01	.86
20.	131.	123.	114.	100.	86.	73.	60.	49.	39.	31.	25.	21.	17.	15.	13.	12.	10.	
	.16	.15	.14	.12	.10	.09	.07	.06	.04	.04	.03	.02	.02	.02	.01	.01	.01	1.17
18.	215.	198.	179.	152.	126.	102.	83.	65.	50.	39.	30.	24.	20.	17.	14.	12.	11.	
	.26	.24	.22	.18	.15	.12	.10	.08	.06	.04	.03	.03	.02	.02	.02	.01	.01	1.68
16.	375.	344.	298.	244.	194.	150.	114.	86.	65.	48.	36.	28.	22.	18.	15.	13.	11.	
	.46	.42	.36	.30	.23	.18	.14	.10	.08	.06	.04	.03	.02	.02	.02	.01	.01	2.56
14.	670.	613.	517.	411.	310.	224.	161.	115.	84.	61.	44.	33.	25.	20.	17.	14.	12.	
	.82	.75	.63	.50	.37	.27	.19	.14	.10	.07	.05	.04	.03	.02	.02	.01	.01	4.09
12.	1208.	1100.	907.	693.	505.	346.	227.	154.	105.	75.	53.	38.	28.	22.	18.	15.	12.	
	1.47	1.34	1.10	.84	.61	.41	.27	.18	.12	.09	.06	.04	.03	.02	.02	.02	.01	6.72
10.	2127.	1907.	1546.	1168.	795.	516.	322.	202.	131.	90.	62.	44.	32.	24.	19.	15.	13.	
	2.59	2.32	1.88	1.41	.96	.62	.38	.24	.15	.10	.07	.05	.04	.03	.02	.02	.01	10.97
8.	3498.	3081.	2460.	1771.	1184.	726.	436.	261.	162.	106.	72.	49.	35.	26.	20.	16.	14.	
	4.26	3.75	2.99	2.14	1.43	.87	.52	.31	.19	.12	.08	.06	.04	.03	.02	.02	.01	16.91
6.	5269.	4593.	3601.	2530.	1618.	974.	558.	323.	194.	122.	81.	55.	38.	28.	21.	17.	14.	
	6.42	5.59	4.37	3.06	1.95	1.17	.66	.38	.23	.14	.09	.06	.04	.03	.02	.02	.01	24.33
4.	7070.	6184.	4692.	3241.	2038.	1197.	681.	383.	222.	137.	89.	59.	40.	29.	22.	17.	14.	
	8.61	7.52	5.70	3.92	2.45	1.43	.81	.45	.26	.16	.10	.07	.04	.03	.02	.02	.01	31.70

2.	8307.	7182.	5458.	3696.	2292.	1365.#	752.	422.	243.	147.	93.	62.	42.	30.	23.	18.	15.	
	10.1	8.7	6.6	4.5	2.8	1.6#	.9	.5	.3	.2	.1	.1	.0	.0	.0	.0	.0	36.6
0.	8352.	7263.	5534.	3759.	2351.	1383.#	779.	434.	249.	150.	95.	63.	42.	30.	23.	18.	15.	
	10.2	8.8	6.7	4.5	2.8	1.7#	.9	.5	.3	.2	.1	.1	.0	.0	.0	.0	.0	37.1
-2.	7292.	6391.	4933.	3418.	2179.	1298.#	744.	420.	242.	147.	94.	62.	42.	30.	22.	17.	14.	
	8.88	7.78	5.99	4.13	2.62	1.55#	.88	.49	.28	.17	.11	.07	.05	.03	.02	.02	.01	33.19
-4.	5719.	5035.	3978.	2828.	1835.	1111.#	657.	380.	224.	137.	89.	59.	40.	29.	22.	17.	14.	
	6.97	6.13	4.83	3.42	2.21	1.33#	.78	.45	.26	.16	.10	.07	.04	.03	.02	.02	.01	26.92
-6.	4065.	3648.	2936.	2157.	1449.	906.#	548.	326.	198.	124.	81.	54.	38.	28.	21.	17.	14.	
	4.95	4.44	3.56	2.61	1.74	1.08#	.65	.38	.23	.14	.09	.06	.04	.03	.02	.02	.01	20.17
-8.	2687.	2463.	2014.	1526.	1065.#	695.	434.	268.	168.	108.	72.	49.	35.	26.	20.	16.	13.	
	3.27	3.00	2.44	1.85	1.28#	.83	.51	.32	.20	.12	.08	.05	.04	.03	.02	.02	.01	14.17
-10.	1681.	1566.	1304.	1015.#	739.	504.	328.	212.	137.	91.	62.	43.	31.	23.	19.	15.	13.	
	2.05	1.91	1.58	1.23#	.89	.60	.39	.25	.16	.11	.07	.05	.03	.03	.02	.02	.01	9.48
-12.	995.	937.#	807.	652.	491.	348.	239.	162.	110.	75.	52.	37.	28.	22.	17.	14.	12.	
	1.21	1.14#	.98	.79	.59	.42	.28	.19	.13	.09	.06	.04	.03	.02	.02	.01	.01	6.11
-14.	566.	545.	484.	406.	314.	234.	170.	120.	85.	60.	43.	32.	25.	19.	16.	13.	11.	
	.69	.66	.59	.49	.38	.28	.20	.14	.10	.07	.05	.04	.03	.02	.02	.01	.01	3.86
-16.	319.	315.	286.	245.	198.	154.	118.	88.	64.	47.	35.	27.	21.	17.	15.	12.	11.	
	.39	.38	.35	.30	.24	.18	.14	.10	.07	.05	.04	.03	.02	.02	.02	.01	.01	2.45
-18.	188.	187.	173.	151.	127.	103.	81.	63.	48.	37.	29.	23.	19.	16.	14.	11.	10.	
	.23	.23	.21	.18	.15	.12	.10	.07	.06	.04	.03	.03	.02	.02	.01	.01	.01	1.61
-20.	115.	115.	108.	97.	83.	70.	56.	45.	36.	29.	24.	20.	17.	14.	12.	11.	10.	
	.14	.14	.13	.12	.10	.08	.07	.05	.04	.03	.03	.02	.02	.02	.01	.01	.01	1.11
-22.	74.	74.	69.	63.	55.	47.	40.	34.	28.	24.	20.	17.	15.	13.	11.	10.	9.	
	.09	.09	.08	.08	.07	.06	.05	.04	.03	.03	.02	.02	.02	.01	.01	.01	.01	.79
-24.	48.	48.	46.	42.	38.	34.	29.	26.	22.	19.	17.	15.	13.	11.	10.	9.	9.	
	.06	.06	.06	.05	.05	.04	.03	.03	.03	.02	.02	.02	.01	.01	.01	.01	.01	.59
-26.	33.	33.	32.	30.	28.	25.	22.	20.	18.	16.	14.	13.	11.	10.	10.	9.	8.	
	.04	.04	.04	.04	.03	.03	.03	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.47
-28.	24.	24.	24.	22.	21.	20.	18.	17.	15.	14.	12.	11.	10.	9.	9.	8.	8.	
	.03	.03	.03	.03	.03	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.38
-30.	18.	19.	19.	18.	17.	16.	15.	13.	12.	11.	11.	10.	9.	9.	8.	8.	7.	
	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.33
-32.	14.	15.	15.	14.	13.	13.	12.	11.	11.	11.	10.	9.	9.	8.	8.	8.	7.	
	.02	.02	.02	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.29
-34.																		

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

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

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SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 30 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.090 ARMS
INPUT WATTAGE: 10.64
POWER FACTOR: 0.985

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.303
CIE 1931-y: 0.303
CORRELATED COLOUR TEMPERATURE: 7406 DEG. K
COLOUR RENDERING INDEX: 75.1%