LIGHTING SCIENCES CANADA LTD.

160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
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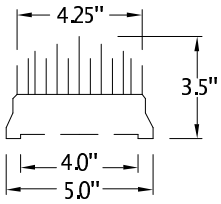
CERTIFIED TEST REPORT NO. LSC E447

ENDURALITELED FLOOD LIGHT CAT. NO. EWP1X72W6K
WITH INDIVIDUAL LED LENS OPTICS
72 WHITE LEDS. LUMEN OUTPUT = 4380 LMS.

FLOODLIGHT SUMMARY:

FIELD ANGLE	63.5H X 70.4V
(BASED ON 10% OF MAX. CP.)	
BEAM ANGLE	30.3H X 37.3V
(BASED ON 50% OF MAX. CP.)	
NEMA TYPE	4H X 5V
MAX. CANDLEPOWER	9984 CANDELA
MAX. CP. VERT. ANGLE	.4 DEGREES
MAX. CP. HORIZ. ANGLE	5.0 DEGREES
AVG. MAX. CANDLEPOWER	8415 CANDELA
FIELD FLUX	3773.1 LUMENS
FIELD EFFICACY	49.2 LMS/WATT
BEAM FLUX	2259.2 LUMENS
BEAM EFFICACY	29.4 LMS/WATT
TOTAL FLUX	4380.2 LUMENS
TOTAL EFFICACY	57.1 LMS/WATT



PREPARED FOR:

ENDURALITELED
MISSISSAUGA, ONTARIO

CERTIFIED BY:

DATE: Jul 9 2010

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
90.0	0.	.0	8918.	90.0	0.	.0	8918.
87.0	4.	-3.0	8081.	87.0	1.	-3.0	9501.
84.0	7.	-6.0	6968.	84.0	1.	-6.0	9972.
81.0	9.	-9.0	6128.	81.0	3.	-9.0	9387.
78.0	12.	-12.0	5804.	78.0	5.	-12.0	7460.
75.0	16.	-15.0	5773.	75.0	9.	-15.0	5058.
72.0	22.	-18.0	5345.	72.0	13.	-18.0	3535.
69.0	28.	-21.0	4497.	69.0	18.	-21.0	2623.
66.0	35.	-24.0	3337.	66.0	23.	-24.0	2068.
63.0	43.	-27.0	2208.	63.0	28.	-27.0	1683.
60.0	54.	-30.0	1591.	60.0	34.	-30.0	1276.
57.0	77.	-33.0	1238.	57.0	41.	-33.0	795.
54.0	99.	-36.0	1003.	54.0	50.	-36.0	447.
51.0	128.	-39.0	718.	51.0	61.	-39.0	269.
48.0	178.	-42.0	500.	48.0	78.	-42.0	160.
45.0	341.	-45.0	294.	45.0	100.	-45.0	100.
42.0	507.	-48.0	167.	42.0	160.	-48.0	78.
39.0	731.	-51.0	131.	39.0	269.	-51.0	61.
36.0	987.	-54.0	100.	36.0	447.	-54.0	50.
33.0	1220.	-57.0	71.	33.0	795.	-57.0	41.
30.0	1592.	-60.0	52.	30.0	1276.	-60.0	34.
27.0	2432.	-63.0	41.	27.0	1683.	-63.0	28.
24.0	3565.	-66.0	33.	24.0	2068.	-66.0	23.
21.0	4463.	-69.0	25.	21.0	2623.	-69.0	18.
18.0	5045.	-72.0	20.	18.0	3535.	-72.0	13.
15.0	5340.	-75.0	15.	15.0	5058.	-75.0	9.
12.0	5475.	-78.0	11.	12.0	7460.	-78.0	5.
9.0	6094.	-81.0	7.	9.0	9387.	-81.0	3.
6.0	7157.	-84.0	5.	6.0	9972.	-84.0	1.
3.0	8261.	-87.0	2.	3.0	9501.	-87.0	1.
.0	8918.	-90.0	0.	.0	8918.	-90.0	0.
- UPPER -		- LOWER -		- RIGHT -		- LEFT -	

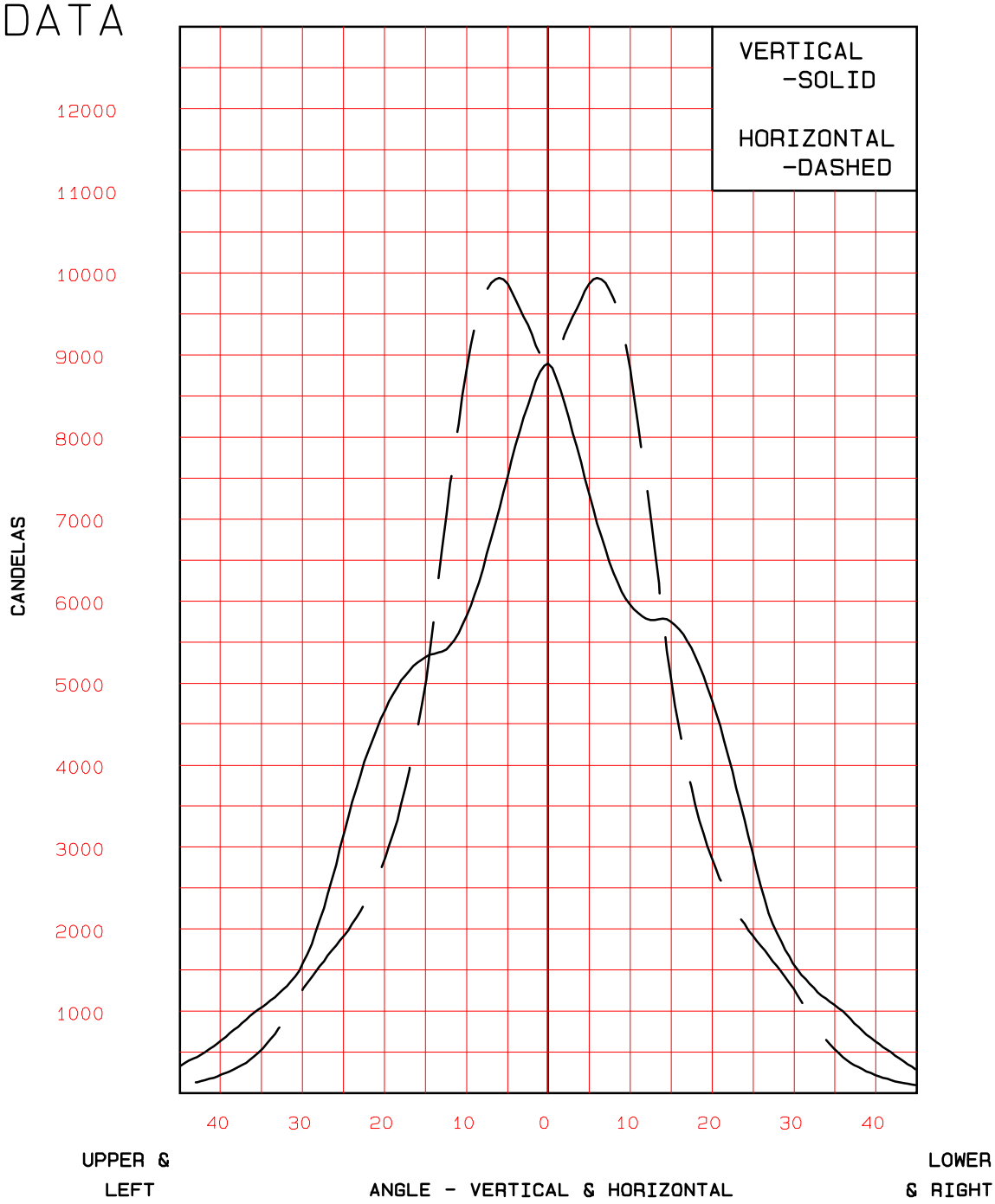
POLAR AXIS HORIZONTAL

CERTIFIED TEST REPORT NO. LSCE447

ENDURALITELED FLOOD LIGHT CAT. NO. EWP1X72W6K
WITH INDIVIDUAL LED LENS OPTICS
72 WHITE LEDS. LUMEN OUTPUT = 4380 LMS.

FLOODLIGHT DATA

CANDLEPOWER TRACE THROUGH ORIGIN



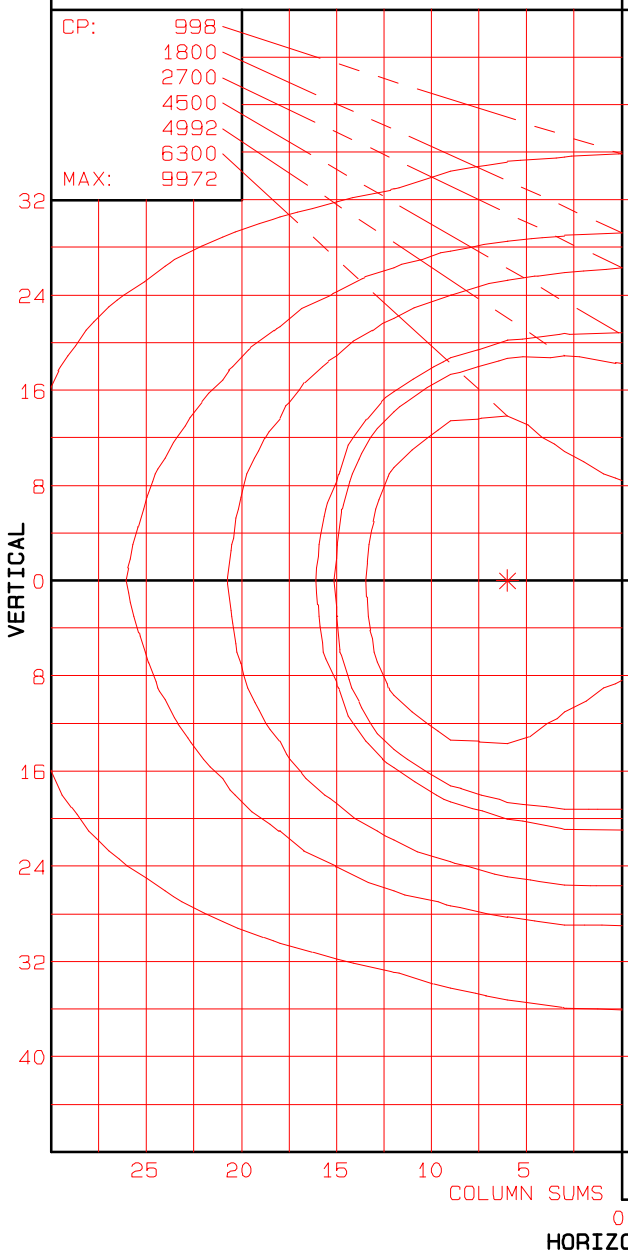
CERTIFIED TEST REPORT NO. LSC E447

FLOODLIGHT DATA

ENDURALITELED FLOOD LIGHT CAT. NO. EWP1X72W6K
WITH INDIVIDUAL LED LENS OPTICS
72 WHITE LEDS. LUMEN OUTPUT = 4380 LMS.

ISOCANDELA DIAGRAM

ISO-CANDELA CURVES



LUMEN DISTRIBUTION						ROW SUMS
5	5	4	2	2	1	21
12	11	9	7	5	3	51
25	22	18	14	11	7	104
57	53	37	24	16	12	209
72	83	64	35	21	15	303
102	113	81	41	25	17	394
100	112	82	42	25	17	392
74	82	64	35	21	15	304
59	52	36	23	16	12	208
24	21	17	14	11	7	101
12	11	9	7	5	3	51
5	4	4	2	2	1	20
550	573	429	252	162	110	2190

COLUMN SUMS

CERTIFIED TEST REPORT NO. LSC E447
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 = 4380 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.	
88.	6. .08	6. .07	5. .07	5. .06	5. .05	4. .05	4. .04	3. .03	3. .02	2. .02	2. .01	1. .01	1. .00	0. .00	0. .00	1. .00	1. .00		.51
80.	14. .17	13. .16	12. .14	11. .13	10. .11	8. .09	8. .08	7. .07	6. .05	5. .04	4. .03	3. .02	2. .01	1. .01	1. .00	0. .00	1. .00		1.12
72.	30. .36	28. .34	26. .31	23. .26	19. .22	17. .18	15. .16	14. .13	11. .10	10. .08	8. .06	6. .04	5. .03	3. .01	2. .01	1. .00	1. .00		2.30
64.	53. .65	52. .62	48. .57	42. .48	34. .38	29. .32	26. .26	23. .22	19. .17	16. .13	13. .10	11. .07	8. .04	5. .02	3. .01	2. .00	1. .00		4.06
56.	115. 1.40	115. 1.38	107. 1.27	92. 1.07	71. .80	53. .57	41. .42	35. .34	29. .26	23. .19	19. .14	15. .10	11. .06	8. .04	5. .02	2. .01	1. .00		8.09
48.	389. 4.73	381. 4.61	317. 3.77	197. 2.29	136. 1.53	103. 1.12	77. .79	53. .52	42. .38	34. .28	27. .20	21. .14	15. .09	11. .05	7. .02	3. .01	1. .00		20.52
40.	972. 11.8	917. 11.1	784. 9.3	601. 7.0	436. 4.9	243. 2.6	146. 1.5	97. .9	61. .5	45. .4	35. .3	26. .2	19. .1	14. .1	8. .0	4. .0	1. .0		50.7
32.	2017. 24.5	1812. 21.9	1486. 17.7	1236.# 14.4#	991. 11.2	661. 7.1	311. 3.2	160. 1.5	87. .8	58. .5	41. .3	31. .2	23. .1	16. .1	9. .0	5. .0	2. .0		103.5
24.	4725. 57.5	4355. 52.6	3088. 36.7	2037. 23.7	1411. 15.9	1097.# 11.9#	604. 6.2	229. 2.2	118. 1.1	68. .6	48. .4	35. .2	26. .1	18. .1	11. .0	5. .0	2. .0		209.1
16.	5894. 71.7	6836. 82.6	5364. 63.8	3035. 35.3	1908. 21.5	1350.# 14.6#	777. 8.0	304. 2.9	141. 1.3	75. .6	54. .4	39. .3	28. .2	19. .1	11. .0	5. .0	2. .0		303.2
8.	8372. 102.	9341. 113.	6827. 81.	3563. 41.	2219. 25.	1550.# 17.#	852. 9.	331. 3.	145. 1.	80. 1.	56. 0.	40. 0.	28. 0.	20. 0.	12. 0.	6. 0.	2. 0.		394.
0.	8192. 100.	9280. 112.	6892. 82.	3585. 42.	2214. 25.	1539.# 17.#	852. 9.	330. 3.	143. 1.	80. 1.	55. 0.	40. 0.	28. 0.	20. 0.	12. 0.	6. 0.	2. 0.		392.
-8.	6043. 73.5	6809. 82.2	5368. 63.8	3026. 35.2	1892. 21.3	1347.# 14.6#	778. 8.0	306. 3.0	141. 1.3	76. .6	53. .4	39. .3	28. .2	19. .1	11. .0	6. .0	2. .0		304.4
-16.	4832.	4288.	3024.	2013.	1395.	1087.#	595.	226.	119.	68.	48.	36.	26.	18.	11.	5.	2.		

	58.8	51.8	36.0	23.4	15.7	11.7	6.1	2.2	1.1	.6	.4	.2	.1	.1	.0	.0	.0	208.2
-24.																		
	1960.	1758.	1456.	1226.	966.	650.	308.	159.	87.	58.	42.	32.	23.	17.	9.	5.	2.	
	23.9	21.2	17.3	14.2	10.9	7.0	3.2	1.5	.8	.5	.3	.2	.1	.1	.0	.0	.0	101.3
-32.																		
	994.	909.	776.	600.	443.	244.	144.	97.	61.	45.	35.	27.	19.	14.	8.	4.	1.	
	12.1	11.0	9.2	7.0	5.0	2.6	1.5	.9	.5	.4	.3	.2	.1	.1	.0	.0	.0	50.9
-40.																		
	374.	366.	316.	204.	139.	105.	77.	54.	43.	34.	28.	21.	15.	11.	6.	3.	1.	
	4.56	4.42	3.75	2.37	1.57	1.13	.79	.52	.39	.28	.20	.14	.09	.05	.02	.01	.00	20.30
-48.																		
	118.	115.	110.	96.	73.	53.	42.	36.	30.	24.	20.	16.	12.	8.	5.	2.	1.	
	1.44	1.39	1.31	1.11	.82	.57	.43	.35	.27	.20	.15	.10	.07	.04	.02	.01	.00	8.28
-56.																		
	53.	52.	48.	42.	35.	30.	26.	24.	20.	16.	13.	11.	8.	6.	3.	1.	1.	
	.64	.63	.57	.49	.39	.32	.27	.23	.18	.14	.10	.07	.04	.03	.01	.00	.00	4.12
-64.																		
	28.	28.	26.	23.	19.	17.	15.	14.	12.	10.	8.	6.	5.	4.	2.	1.	0.	
	.34	.34	.31	.26	.22	.19	.16	.13	.10	.08	.06	.04	.03	.02	.01	.00	.00	2.29
-72.																		
	13.	13.	12.	11.	10.	9.	8.	7.	6.	5.	4.	3.	2.	2.	1.	0.	0.	
	.16	.16	.14	.13	.11	.09	.08	.06	.05	.04	.03	.02	.01	.01	.00	.00	.00	1.12
-80.																		
	5.	5.	5.	5.	4.	4.	4.	3.	2.	2.	1.	1.	1.	0.	0.	0.	1.	
	.06	.07	.06	.06	.05	.04	.04	.03	.02	.02	.01	.01	.00	.00	.00	.00	.00	.47
-88.																		
	550.	573.	429.	252.	162.	110.	59.	24.	12.	7.	5.	3.	2.	1.	1.	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 E447

ENDURALITELED FLOOD LIGHT CAT. NO. EWP1X72W6K
WITH INDIVIDUAL LED LENS OPTICS
72 WHITE LEDS. LUMEN OUTPUT = 4380 LMS.

SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 1 HOUR 30 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.642 ARMS
INPUT WATTAGE: 76.65
POWER FACTOR: 0.995

CHROMATICITY MEASUREMENTS

CIE 1931-x:	0.307
CIE 1931-y:	0.306
CORRELATED COLOUR TEMPERATURE:	7072 DEG. K
COLOUR RENDERING INDEX:	72.2%