

Photometrics Pro

Luminaire Photometric Report

Filename: HTS-8R-DROP-COBRAHEAD

Manufacturer: BARE DEVELOPMENT, INC.

Luminaire: MODEL HTS-8R DROP LENS COBRAHEAD

Luminaire Cat: THIRTY-SIX LED LIGHT BOARD / ROADWAY LIGHT (COBRAHEAD) TESTED RL1D 87.6W INPUT

Lamp: LED

Lamp Cat: NA. LUMINAIRE OUTPUT: 7224 Lms.

Lamp Output: 1 lamp(s), rated Lumens/lamp: 7224

Max Candela: 2,156.1 at Horizontal: 82.5°, Vertical: 22.5°

Input Wattage: 87.6

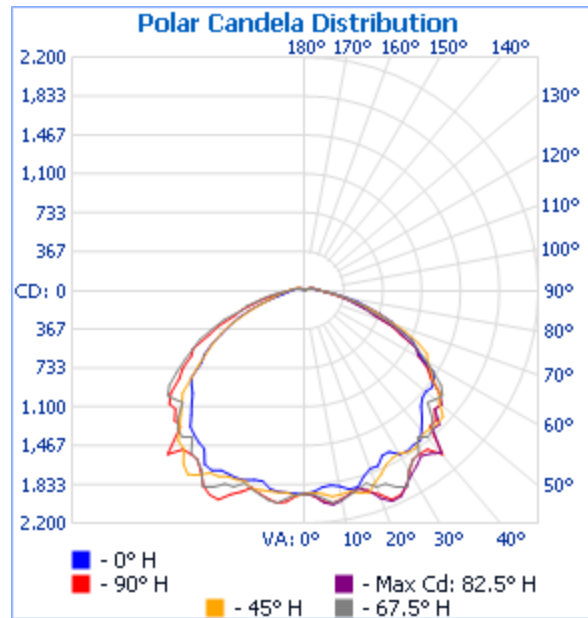
Luminous Opening: Point

Test: INTERTEK TESTED

Test Lab: SCALED FROM Intertek

Photometry : Type C

CIE Class: Direct



Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, VERY SHORT	
Max Cd, 90 Deg Vert:	154.0	
Max Cd, 80 to <90 Deg:	391.3	
	Lumens	% Lamp
Downward Street Side:	3,666.2	50.8%
Downward House Side:	3,334.9	46.2%
Downward Total:	7,001.1	96.9%
Upward Street Side:	111.9	1.5%
Upward House Side:	109.4	1.5%
Upward Total:	221.3	3.1%
Total Lumens:	7,222.4	100%

Zonal Lumen Summary

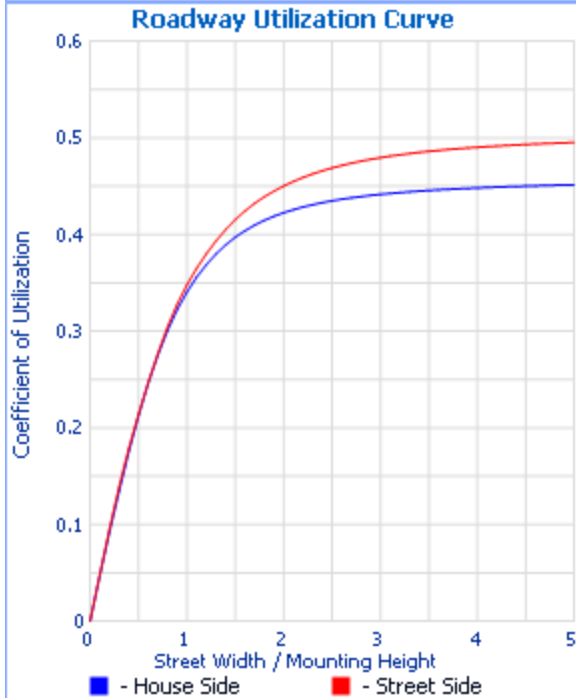
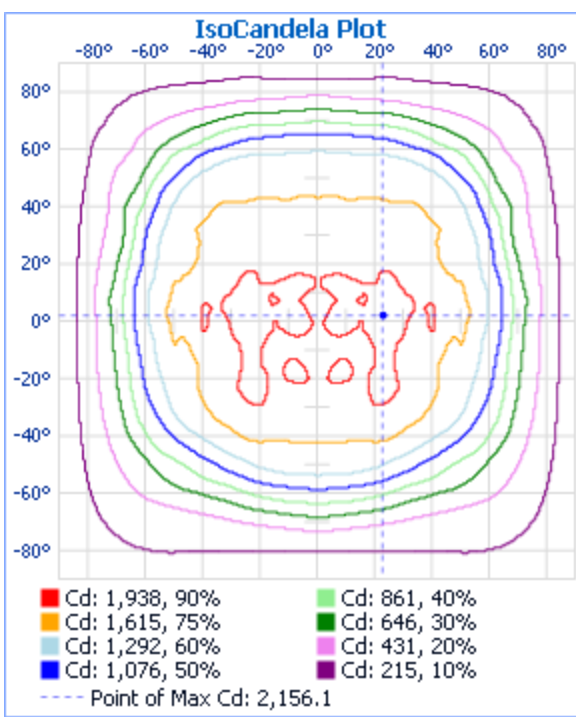
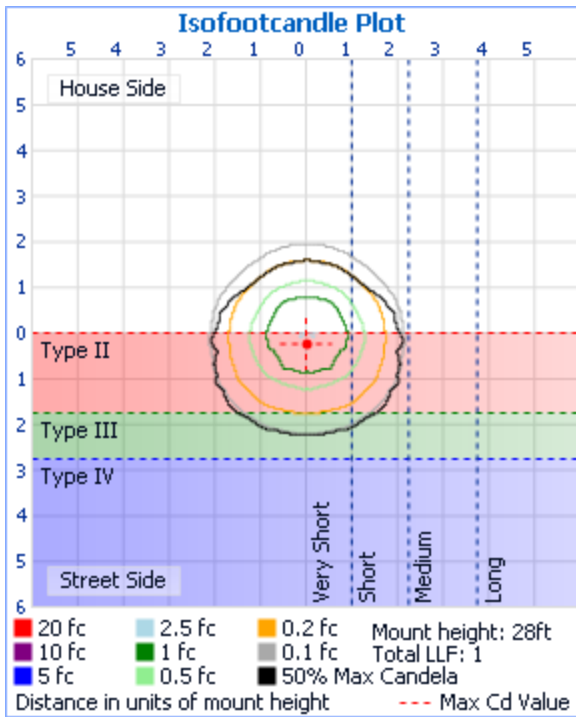
Zone	Lumens	% Lamp	% Luminaire
0-30	1,624.0	22.5%	22.5%
0-40	2,777.0	38.4%	38.5%
0-60	5,292.1	73.3%	73.3%
60-90	1,708.0	23.6%	23.7%
0-90	7,000.2	96.9%	96.9%
90-180	221.4	3.1%	3.1%
0-180	7,221.6	100%	100%

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.3%	6,883.3	168	165.1
Beam (50%):	77.7%	5,611.7	128.5	119.5
Total:	99.9%	7,219.6		

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	185.0	2.6%	90-100	121.3	1.7%
10-20	550.0	7.6%	100-110	66.4	0.9%
20-30	889.1	12.3%	110-120	27.0	0.4%
30-40	1,153.1	16.0%	120-130	6.4	0.1%
40-50	1,283.8	17.8%	130-140	0.2	0%
50-60	1,231.3	17.1%	140-150	0	0%
60-70	951.1	13.2%	150-160	0	0%
70-80	525.6	7.3%	160-170	0	0%
80-90	231.3	3.2%	170-180	0	0%



Illuminance at a Distance

	Center Beam FC	Beam Width	
4.7R	88.26 fc	16.0ft	19.3ft
9.3R	22.06 fc	32.0ft	38.7ft
14.0R	9.81 fc	48.0ft	58.0ft
18.7R	5.52 fc	64.0ft	77.4ft
23.3R	3.53 fc	80.0ft	96.7ft
28.0R	2.45 fc	96.0ft	116.0ft

■ Vert. Spread: 119.5° ■ Horiz. Spread: 128.5°

Candela Table - Type C

	0	5	15	25	35	45	55	60	62.	65	67.	70	72.	75	77.	80	82.	85	87.	90	95	10	11	12	13	14	15	16	17	18	
0	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	192	19	192	19	19	19	19	19	19	19	19	19	19	19	19
2.5	03	03	01	09	13	13	18	39	26	28	32	34	37	36	37	39	1	43	3	44	45	40	32	39	43	33	31	27	21	23	
5	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	201	20	201	20	19	19	19	19	19	18	18	18	18	19	19
7.5	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	204	20	203	20	20	20	20	19	19	18	18	18	18	18	19
10	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	201	20	200	20	20	19	19	19	19	19	19	18	18	18	19
12.5	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	196	19	197	19	19	19	19	19	19	19	19	18	18	18	18
15	19	19	20	20	20	19	19	19	19	19	19	19	19	19	19	19	194	19	193	19	19	19	18	18	19	19	19	19	18	18	18

	24	42	02	00	08	80	38	44	50	46	45	56	72	62	60	52	6	44	6	30	26	23	98	95	43	40	36	14	88	53	
17.	18	18	19	19	19	20	19	19	19	19	19	19	19	19	19	19	198	19	199	19	19	19	19	19	18	19	19	19	18	18	
5	42	83	32	67	73	03	64	24	19	18	10	20	34	59	79	82	0	78	2	94	80	23	01	06	84	62	62	50	92	81	
20	17	18	18	19	18	19	19	19	19	19	19	19	20	20	20	20	209	20	208	20	20	19	18	18	19	19	19	19	19	18	
	92	15	25	00	99	32	65	34	48	80	75	81	00	20	44	64	1	78	2	50	24	66	96	98	02	55	71	77	04	88	
22.	17	17	18	18	18	18	19	19	19	19	19	19	20	21	20	21	21	21	21	21	20	20	19	19	19	19	19	19	18	18	
5	96	70	18	33	05	78	54	66	52	54	79	98	27	05	90	35	21	21	21	21	40	74	23	51	04	04	24	45	29	75	80
25	17	17	17	17	17	18	19	19	19	20	20	20	21	21	21	21	214	21	215	21	20	20	19	19	19	19	18	19	18	18	
	22	51	86	56	49	15	19	45	78	28	51	84	06	20	30	33	6	29	3	32	90	36	97	44	38	32	89	20	96	76	
27.	17	17	17	16	17	17	19	20	20	20	20	21	21	20	20	20	207	20	207	20	20	19	20	20	19	19	18	19	19	19	
5	19	74	24	95	42	86	82	27	51	48	90	07	15	86	72	56	2	86	0	83	30	48	08	17	44	04	95	09	24	15	
30	17	17	17	16	17	17	19	19	20	19	19	19	19	19	19	19	200	19	197	19	19	19	19	20	20	19	18	18	18	18	
	90	88	62	78	01	80	12	83	10	78	58	28	40	63	81	89	8	74	8	71	60	06	04	31	15	11	67	53	84	98	
32.	17	18	17	17	17	18	18	18	18	18	18	19	19	19	19	20	196	19	192	18	18	18	18	19	20	19	18	18	17	17	
5	99	27	93	38	28	12	45	46	29	53	98	18	41	63	70	04	3	43	0	94	28	46	98	40	62	14	50	47	82	74	
35	17	18	17	17	18	18	17	17	17	18	18	18	18	18	18	18	190	19	192	18	18	17	18	19	20	19	18	18	17	17	
	81	32	81	52	11	18	79	58	65	46	75	72	70	78	98	86	9	25	3	87	50	66	43	57	04	30	27	08	69	51	
37.	17	18	18	17	18	17	16	17	17	17	17	17	17	18	18	19	194	19	192	18	18	18	18	18	18	18	18	17	17	17	
5	89	38	18	27	95	66	96	32	43	59	47	41	93	20	87	04	5	16	3	95	84	06	09	83	83	66	54	37	39	21	
40	17	17	17	17	18	17	16	16	16	17	18	18	18	18	19	19	200	19	197	20	19	17	17	17	18	18	17	17	16	16	
	11	77	45	81	97	54	14	68	60	11	05	23	56	99	00	35	4	82	6	22	32	97	51	55	61	88	07	01	92	87	
42.	16	17	16	17	19	17	16	17	17	17	17	18	18	18	18	18	178	17	176	17	17	17	17	17	17	18	16	16	16	15	
5	34	13	75	55	28	62	73	03	08	53	82	28	58	56	14	02	1	61	2	42	66	07	80	59	56	27	65	25	08	91	
45	15	15	15	16	18	17	17	17	18	17	16	16	16	17	16	17	179	17	176	17	16	15	16	18	16	17	15	15	15	15	
	48	88	30	76	16	74	59	82	13	81	95	79	97	03	91	55	5	73	4	41	75	51	86	17	59	23	82	07	41	14	
47.	15	15	14	15	16	17	18	16	15	15	15	15	15	16	15	15	166	16	168	16	16	14	16	16	15	15	14	14	14	14	
5	03	30	47	47	16	66	18	15	96	60	67	64	97	30	93	92	3	80	8	61	01	43	04	14	78	61	91	39	83	41	
50	14	15	14	14	15	16	16	16	15	16	16	16	15	16	16	16	168	16	166	16	16	15	14	14	15	14	14	13	14	13	
	88	04	34	96	44	56	79	23	99	05	03	00	80	01	31	62	2	88	7	72	51	08	88	73	11	50	30	91	06	99	
52.	15	15	14	14	14	16	15	16	15	16	16	16	16	16	15	16	160	16	165	16	15	14	13	13	13	13	13	13	13	13	
5	10	15	46	72	55	00	36	07	76	03	35	00	10	08	78	30	1	13	0	00	57	67	99	75	49	25	40	54	23	51	
55	14	14	14	14	14	14	15	15	15	15	15	15	15	14	14	14	146	15	148	14	14	13	14	12	12	12	12	12	11	11	
	80	58	06	72	81	69	28	48	59	50	66	26	12	77	50	22	8	14	3	49	47	89	30	88	18	03	33	09	76	98	
57.	14	14	13	14	14	14	14	14	14	14	14	13	13	13	13	13	138	14	142	13	12	12	12	11	11	11	11	10	10	11	
5	38	05	99	09	33	02	79	83	97	63	37	98	37	36	56	51	7	46	4	70	80	45	66	74	06	07	13	12	95	26	
60	12	12	12	13	14	13	14	13	13	13	13	12	12	12	12	12	123	12	125	12	11	11	11	10	10	10	10	10	99	10	
	69	59	57	52	60	34	46	65	53	05	08	92	97	59	33	20	1	70	0	39	78	79	44	44	07	0	05	04	8	18	
62.	11	11	11	11	12	12	12	12	12	12	12	11	11	11	11	11	118	12	124	11	11	10	10	92	89	84	87	88	88	89	
5	82	70	59	74	41	97	90	35	21	27	92	53	62	62	52	37	2	25	4	93	02	98	06	7	9	6	7	4	7	1	
65	11	11	11	11	11	11	11	11	10	10	10	10	10	10	10	98	102	10	103	10	96	95	91	80	78	71	74	75	76	77	
	14	13	13	36	13	78	09	30	69	86	95	78	76	34	21	5	0	42	4	00	9	3	6	4	4	7	8	4	3	8	9
67.	96	97	97	10	10	10	10	98	99	96	94	92	93	92	87	87	899	90	908	88	81	88	83	74	64	61	63	62	66	67	
5	7	6	2	24	22	26	15	4	6	9	1	3	1	1	1	9	4	4	8	5	2	0	3	9	3	3	9	1	4		
70	86	85	83	89	88	84	89	84	83	83	81	73	79	76	68	66	697	71	732	71	70	71	64	62	54	50	52	51	55	55	
	5	1	9	9	8	2	6	4	2	7	9	9	3	0	6	5	7	7	732	71	70	71	64	62	54	50	52	51	55	55	
72.	73	73	72	75	74	72	74	73	67	65	62	63	64	66	60	57	592	62	673	63	60	62	53	50	43	41	41	41	44	44	
5	5	3	1	0	4	3	7	8	1	3	4	0	7	3	6	8	0	0	673	63	60	62	53	50	43	41	41	41	44	44	
75	60	59	57	62	59	59	57	55	55	57	57	56	55	55	52	47	482	50	541	51	49	50	49	40	35	32	33	33	35	34	
	8	9	3	7	5	3	1	2	8	0	0	0	0	0	2	8	7	7	541	51	49	50	49	40	35	32	33	33	35	34	
77.	50	49	45	47	46	46	48	48	48	46	44	43	47	46	45	39	407	42	448	42	44	41	39	34	29	27	27	26	27	27	
5	8	0	8	4	1	8	0	0	0	4	1	3	0	8	0	9	7	7	448	42	44	41	39	34	29	27	27	26	27	27	
80	39	38	36	36	35	36	37	38	37	38	37	35	37	36	35	32	330	34	348	32	34	33	31	28	25	23	22	21	21	21	
	1	5	4	9	7	9	8	2	3	4	5	9	3	7	2	8	0	0	348	32	34	33	31	28	25	23	22	21	21	21	
82.	29	29	27	29	27	27	29	29	30	29	28	27	28	27	28	27	256	26	262	25	26	27	26	24	22	20	19	18	18	17	
5	9	2	6	4	7	2	4	7	0	8	8	8	8	6	0	0	4	4	262	25	26	27	26	24	22	20	19	18	18	17	
85	21	21	21	23	21	21	22	22	22	22	21	21	21	20	20	20	200	19	196	18	20	20	21	20	18	17	16	16	15	15	
	8	8	5	1	8	8	4	4	2	4	7	8	2	3	8																

92.5	110	111	118	131	130	122	124	122	120	120	120	119	121	121	120	120	119	117	116	118	122	132	135	136	136	129	124	119	115	115								
95	95	97	103	111	113	108	110	108	107	107	106	108	109	109	107	108	109	107	105	105	105	110	121	122	122	121	113	108	104	101	100							
97.5	83	86	89	95	99	94	97	95	95	96	95	97	100	99	97	97	99	97	95	94	101	109	108	109	105	98	94	90	87	86								
100	72	75	77	81	86	82	85	84	85	85	85	87	91	90	88	87	89	88	86	85	91	97	96	97	92	87	81	76	71	70								
102.5	63	65	66	69	72	70	73	74	75	75	75	77	80	79	78	77	78	78	77	75	79	84	83	87	81	76	69	61	52	51								
105	54	55	56	58	60	61	63	65	66	66	66	67	70	69	69	68	68	69	67	67	70	74	74	77	71	65	57	47	32	29								
107.5	46	47	47	49	51	53	56	57	58	59	59	59	61	60	60	59	59	60	59	59	62	64	64	65	59	52	43	29	10	7								
110	39	40	40	41	42	45	48	49	50	51	51	51	52	51	50	50	51	51	51	51	53	54	54	54	46	38	28	14	0	0								
112.5	32	33	33	34	35	37	40	42	43	43	43	43	43	42	42	42	43	43	43	43	44	45	44	43	35	27	17	5	0	0								
115	27	28	27	27	27	29	33	34	35	36	36	35	35	35	35	36	36	36	36	36	36	36	36	34	26	18	9	0	0	0								
117.5	18	19	22	21	20	22	26	27	28	29	28	28	28	29	29	30	30	30	29	29	29	29	29	26	19	12	4	0	0	0								
120	6	9	17	16	14	15	19	20	21	22	22	22	22	23	23	23	23	23	23	22	22	23	23	19	14	7	1	0	0	0								
122.5	4	7	12	12	7	9	13	15	15	16	16	16	16	17	17	17	17	17	16	16	17	18	16	13	9	2	0	0	0	0								
125	3	5	9	8	0	4	8	10	10	11	11	11	11	11	11	12	11	11	11	12	12	12	11	8	5	0	0	0	0	0	0							
127.5	1	3	6	1	0	0	4	5	5	6	6	6	6	7	7	7	7	7	7	8	8	7	6	4	1	0	0	0	0	0	0							
130	0	0	0	0	1	0	1	1	2	2	2	2	3	3	3	3	3	4	4	4	4	4	4	3	2	0	0	0	0	0	0							
132.5	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0						
135	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
137.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
142.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
147.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
152.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
157.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
162.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
167.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
172.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

IESNA:LM-63-2002
[TEST]INTERTEK TESTED
[TESTLAB]SCALED FROM Intertek
[ISSUEDATE] 7/22/2010
[MANUFAC]BARE DEVELOPMENT, INC.
[LUMINAIRE]MODEL HTS-8R DROP LENS COBRAHEAD
[LUMCAT]THIRTY-SIX LED LIGHT BOARD / ROADWAY LIGHT (COBRAHEAD)
[MORE]TESTED RL1D 87.6W INPUT
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT: 7224 Lms.
[OTHER]23.997V, 3.1723mA, 92.85W
[OTHER]TEST PROCEDURE: IESNA LM-79-08
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 73, HORIZONTAL ANGLES: 30
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

Photometrics Pro 1.3.9 copyright 2003-2009 by jSolutions, Inc.
Reported data calculated from manufacturer's data file, based on IES recommended methods.