

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

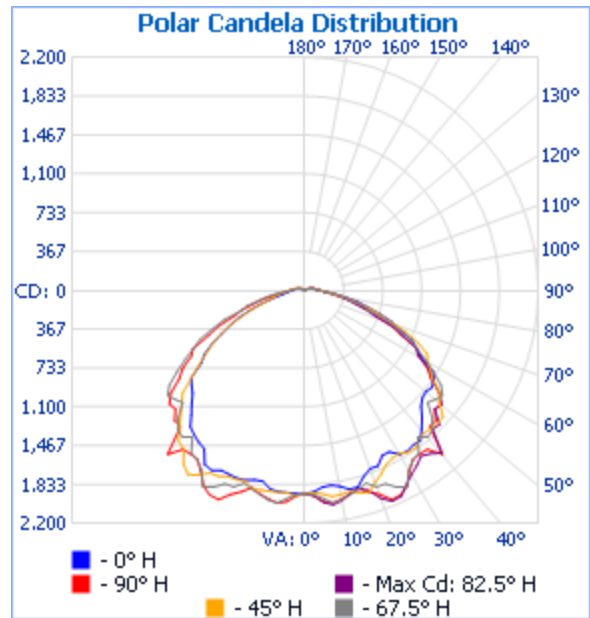
Luminous Opening: Point

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

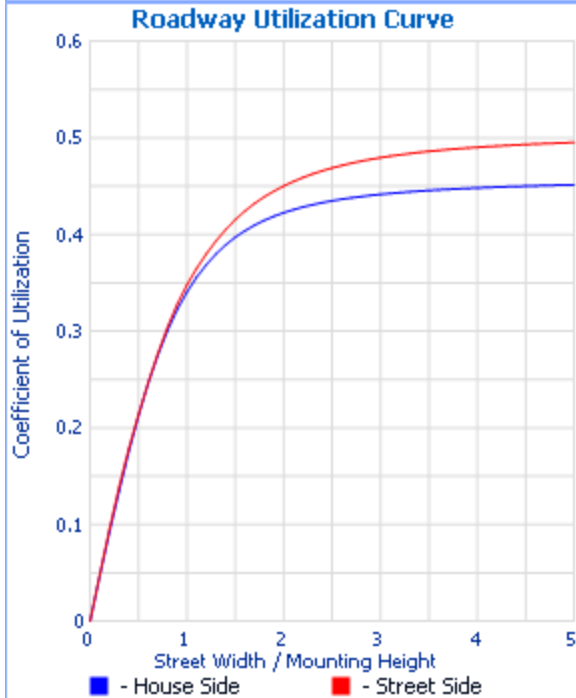
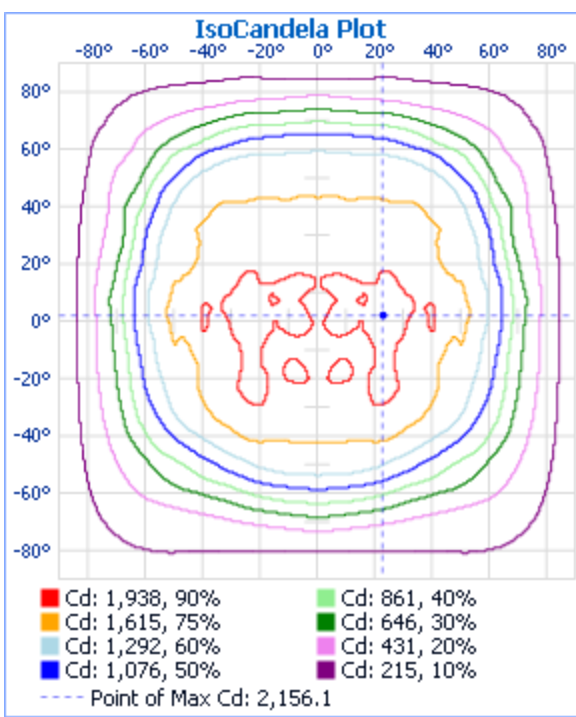
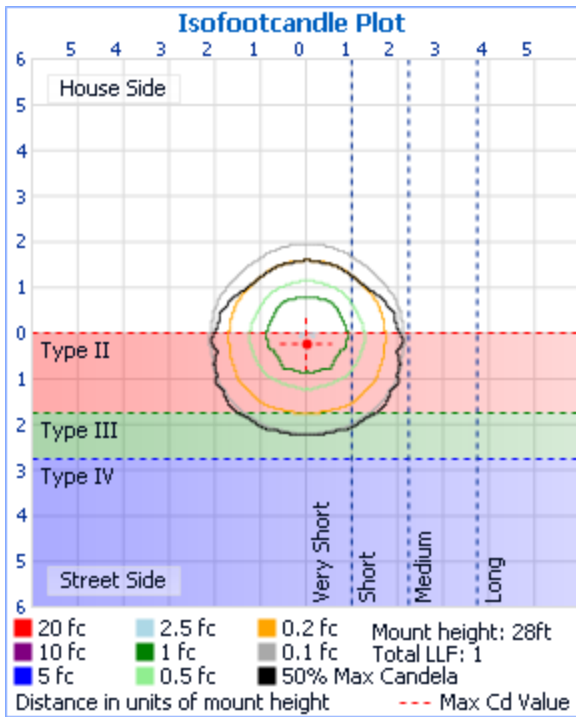
Zone	Lumens	% Lamp	% Luminaire
0-30	1,624.0	22.5%	22.5%
0-40	2,777.0	38.4%	38.5%
0-60	5,292.1	73.3%	73.3%
60-90	1,708.0	23.6%	23.7%
0-90	7,000.2	96.9%	96.9%
90-180	221.4	3.1%	3.1%
0-180	7,221.6	100%	100%

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	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	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	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	
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	

17.	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	
5	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	19	18	18
20	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	
22.	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	
5	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	
25.	17	17	18	18	18	19	19	19	19	19	19	19	20	21	20	21	21	21	21	21	20	20	19	19	19	19	19	19	19	18	18
27.	96	70	18	33	05	78	54	66	52	54	79	98	27	05	90	35	21	56	52	40	74	23	51	04	04	24	45	29	75	80	
30	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	19	18	19	18	18
32.	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	
35	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	19
37.	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	
40	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	
42.	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	
45	17	18	17	17	17	18	18	18	18	18	18	18	18	18	18	18	190	19	192	18	18	18	18	19	20	19	18	18	17	17	
47.	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	
50	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	17
52.	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	
55	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	
57.	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	
60	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	
62.	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	
65	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	
67.	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	
70	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	
72.	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	
75	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	
77.	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	
80	15	15	14	14	14	16	15	16	15	16	16	16	16	15	16	16	160	16	165	16	15	14	13	13	13	13	13	13	13	13	
82.	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	
85	14	14	14	14	14	15	15	15	15	15	15	15	15	14	14	14	146	15	148	14	14	13	14	12	12	12	12	12	11	11	
87.	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	
90	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	11	10	11	
92.	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	05	26	
95.	12	12	12	13	14	13	14	13	13	13	13	12	12	12	12	12	123	12	125	12	12	11	11	11	10	10	10	10	10	10	
97.	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	
100.	11	11	11	11	12	12	12	12	12	12	11	11	11	11	11	11	118	12	124	11	11	10	10	10	92	89	84	87	88	89	
103.	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	
106.	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	
109.	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	9	
112.	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	
115.	7	6	2	24	22	26	15	4	6	9	1	3	1	1	1	9	4	4	8	8	5	2	0	3	9	3	3	9	1	4	
118.	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	
121.	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	
124.	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	
127.	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	
130.	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	
133.	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	
136.	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	
139.	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	
142.	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	
145.	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	
148.	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	
151.	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	
154.	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	
157.	8	8	5	1	8	8	4	4	2	4	7	8	2	3	8	8	5	5	196	18	20	20	21	20	18	17	16	16	15	15	
160.	16	16	17	18	17	16	17	16	16	16	16	16	16	16	16	15	158	15	154	15	15	16	17	17	16	15	15	14	14	13	
163.	5	7	2	6	9	9	3	9	9	9																					

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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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.