

REPORT NUMBER: ITL87107-GONIOPHOTOMETRY

PAGE: 1 OF 4

ISSUE DATE: 04/08/16

PREPARED FOR: PARSOURCE

CATALOG NUMBER: COMMERCIALY AVAILABLE LUMINAIRE

LUMINAIRE: CAST WHITE PAINTED FINNED METAL BALLAST HOUSING, CAST WHITE PAINTED METAL SOCKET BRACKET/REFLECTOR MOUNTING BRACKETS, FORMED METAL UPPER REFLECTOR WITH PREMIUM SEMI-SPECULAR FINISH, FABRICATED PEENED METAL LOWER REFLECTOR WITH PREMIUM SPECULAR FINISH. OPEN BOTTOM.

LAMP: ONE 1000-WATT CLEAR T-9 DOUBLE ENDED HIGH PRESSURE SODIUM, BLV HORTURION HPS 1000W 44V EL 2.2, HORIZONTAL POSITION.

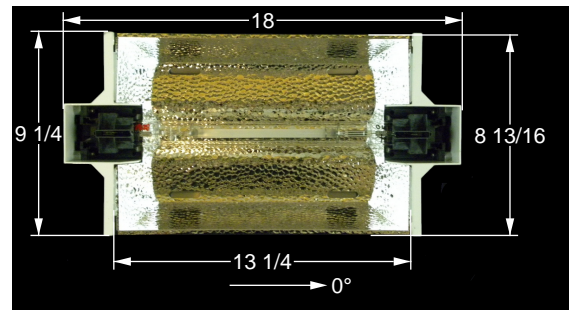
BALLAST: AGROLUX ALF1000W 2.2

INPUT ELECTRICAL: 240.0 VOLTS, 1054.7 WATTS, 4.44 AMPS

MOUNTING: SUSPENDED

NOTE: THIS IS A RELATIVE PHOTOMETRIC TEST PERFORMED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE BALLAST. UPPER HEMISPHERE LIGHT NOT MEASURED AT CLIENT'S REQUEST. LUMEN RATING PROVIDED BY CLIENT.

REPORT IS BASED ON 165000 LUMENS PER LAMP.



CANDELA DISTRIBUTION						FLUX
0.0	22.5	45.0	67.5	90.0		
0	26359	26359	26359	26359	26359	
5	26303	26426	26644	26928	27065	2585
15	25996	27084	30002	31224	31223	8281
25	24913	28383	31981	34707	35834	14621
35	22942	28304	37464	41532	41814	21876
45	19135	24915	35830	46588	51288	27764
55	13555	19388	36021	55073	61211	32949
65	7309	10958	33978	40849	37053	27126
75	2247	5386	15169	5844	3747	8886
85	81	114	192	333	314	381
90	2	61	43	10	0	

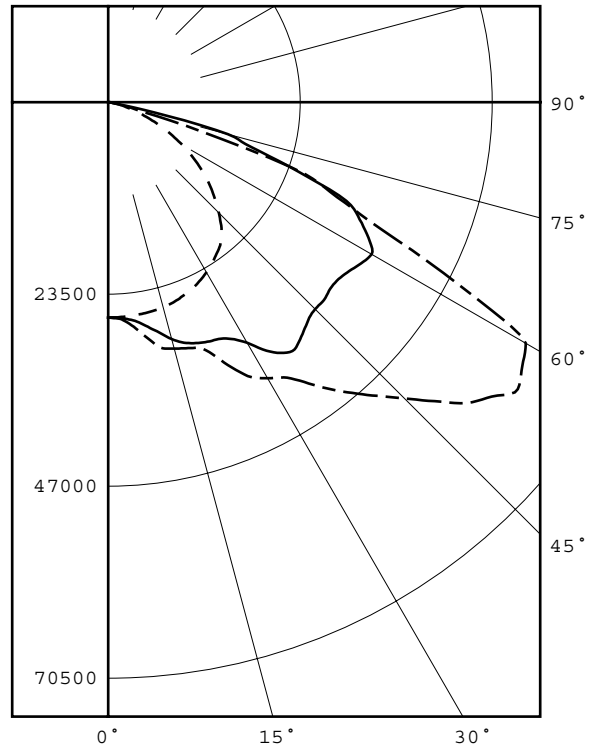
ZONAL LUMEN SUMMARY				
ZONE	LUMENS	%LAMP	%FIXT	
0- 30	25487	15.4	17.6	
0- 40	47363	28.7	32.8	
0- 60	108076	65.5	74.8	
0- 90	144469	87.6	100.0	
90-180	0	0.0	0.0	
0-180	144469	87.6	100.0	

TOTAL LUMINAIRE EFFICIENCY = 87.6 %

CIE TYPE - DIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.35 2.63

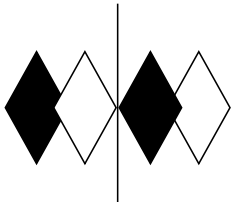


LEGEND:

0-deg -----
45-deg =====
90-deg - . - . - .

Checked M KLOPF

Approved R BEATTIE
Lighting Engineer



itl boulder
 THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
 4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL87107-GONIOPHOTOMETRY
 ISSUE DATE: 04/08/16
 PREPARED FOR: PARSOURCE

PAGE: 2 OF 4

CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	26359	26359	26359	26359	26359
2.5	26349	26381	26411	26467	26495
5.0	26303	26426	26644	26928	27065
7.5	26260	26511	27094	27841	28173
10.0	26202	26636	27920	29147	29579
12.5	26120	26803	28880	30474	30851
15.0	25996	27084	30002	31224	31223
17.5	25804	27410	30854	31577	31575
20.0	25549	27757	31381	31873	32000
22.5	25241	28061	31739	32573	33388
25.0	24913	28383	31981	34707	35834
27.5	24510	28663	32667	37255	37936
30.0	24045	28849	34009	39285	39019
32.5	23527	28681	36063	40376	39957
35.0	22942	28304	37464	41532	41814
37.5	22370	27675	37806	43135	44204
40.0	21572	26774	37008	44544	46460
42.5	20462	25771	36212	45281	48761
45.0	19135	24915	35830	46588	51288
47.5	17777	24186	35825	48509	54167
50.0	16492	23269	35500	50865	57288
52.5	15052	21748	35552	53469	59175
55.0	13555	19388	36021	55073	61211
57.5	12025	17029	36708	57405	60090
60.0	10497	14721	37224	56309	59002
62.5	8902	12752	35900	53964	48334
65.0	7309	10958	33978	40849	37053
67.5	5846	9413	31544	32272	30328
70.0	4434	8073	24569	26583	25480
72.5	3172	6821	18480	19481	12261
75.0	2247	5386	15169	5844	3747
77.5	1427	3800	5840	2487	2109
80.0	719	1924	957	1323	1204
82.5	218	204	421	691	648
85.0	81	114	192	333	314
87.5	60	96	85	122	105
90.0	2	61	43	10	0



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL87107-GONIOPHOTOMETRY
ISSUE DATE: 04/08/16
PREPARED FOR: PARSOURCE

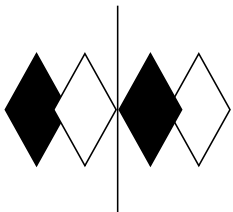
PAGE: 3 OF 4

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	634
5- 10	1951
10- 15	3398
15- 20	4883
20- 25	6410
25- 30	8211
30- 35	10074
35- 40	11802
40- 45	13161
45- 50	14603
50- 55	16041
55- 60	16908
60- 65	15590
65- 70	11536
70- 75	6805
75- 80	2082
80- 85	322
85- 90	59

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	2585
0- 20	10866
0- 30	25487
0- 40	47363
0- 50	75127
0- 60	108076
0- 70	135202
0- 80	144088
0- 90	144469



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
 4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL87107-GONIOPHOTOMETRY

PAGE: 4 OF 4

ISSUE DATE: 04/08/16

PREPARED FOR: PARSOURCE

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	104	104	104	104	102	102	102	102	97	97	97	93	93	93	89	89	89	88	
1	95	91	87	83	93	89	85	82	85	82	79	81	79	77	78	76	75	73	
2	85	78	71	66	83	76	70	65	73	68	63	70	66	62	67	64	61	59	
3	77	67	59	53	74	65	58	52	63	56	51	60	55	50	58	53	50	47	
4	69	58	50	43	67	57	49	43	54	48	42	52	46	42	50	45	41	39	
5	63	51	42	36	61	50	42	36	48	41	35	46	40	35	44	39	34	32	
6	58	45	36	30	56	44	36	30	42	35	30	41	34	30	39	34	29	27	
7	53	40	32	26	51	39	31	26	38	31	26	37	30	25	35	30	25	23	
8	49	36	28	23	47	35	28	23	34	27	22	33	27	22	32	26	22	20	
9	45	33	25	20	44	32	25	20	31	24	20	30	24	20	29	24	19	18	
10	42	30	23	18	41	29	22	18	29	22	17	28	22	17	27	21	17	16	

ALL CANDELA, LUMENS, LUMINANCE, COEFFICIENT OF UTILIZATION AND VCP VALUES IN THIS REPORT ARE BASED ON RELATIVE PHOTOMETRY WHICH ASSUMES A BALLAST FACTOR OF 1.000. ANY CALCULATIONS PREPARED FROM THESE DATA SHOULD INCLUDE AN APPROPRIATE BALLAST FACTOR.