

itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

NVLAP
NVLAP LAB CODE: 200925-0

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71681

PAGE: 1 OF 6

ISSUE DATE: 02/17/12

PREPARED FOR: PRUDENTIAL LIGHTING

CATALOG NUMBER: P-46-LED4

LUMINAIRE: FABRICATED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR FINISH, FABRICATED WHITE PAINTED FLAT METAL END CAPS. HOUSING HAS 2 DISTINCT OPTICAL COMPARTMENTS, UPPER OPTICAL COMPARTMENT CONSISTS OF: FORMED WHITE PAINTED METAL REFLECTOR, 4 CIRCUIT BOARDS EACH WITH 105 LEDS. LOWER OPTICAL COMPARTMENT CONSISTS OF: FORMED WHITE PAINTED METAL REFLECTOR, 4 CIRCUIT BOARDS EACH WITH 105 LEDS, EXTRUDED TRANSLUCENT FROSTED PLASTIC DIFFUSER, DIFFUSER FROSTED BOTH SIDES. OPEN TOP.

LAMPS: EIGHT HUNDRED FORTY WHITE LIGHT EMITTING DIODES (LEDS), FOUR HUNDRED TWENTY VERTICAL BASE-UP POSITION, FOUR HUNDRED TWENTY VERTICAL BASE-DOWN POSITION.

LED DRIVER: TWO FULHAM TCD4UNV0300-34L

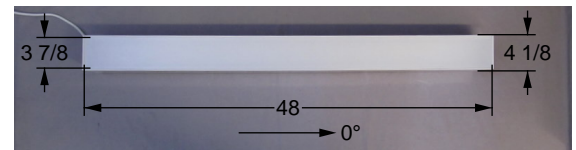
MOUNTING: SUSPENDED

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVERS.

TOTAL INPUT WATTS = 62.7 AT 120.0 VOLTS

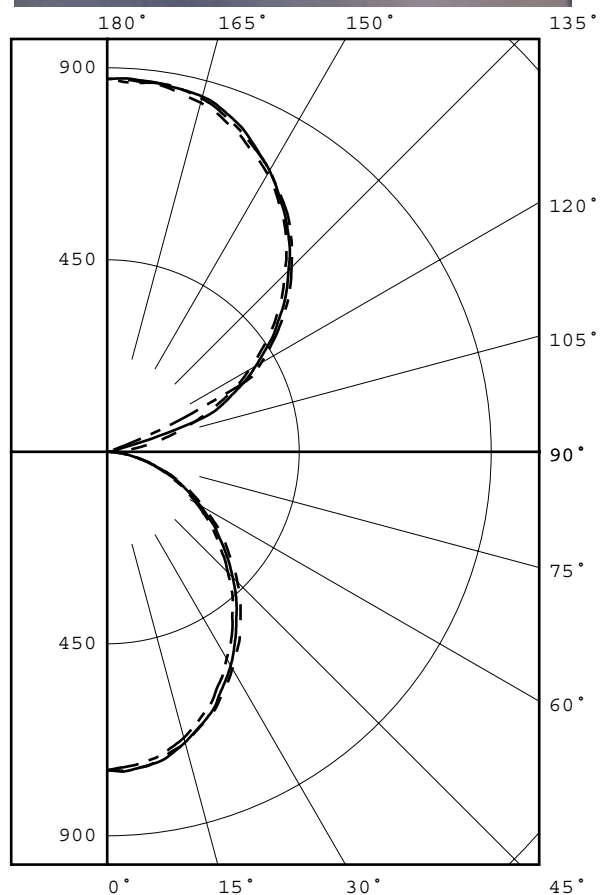
TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 33.25 FEET



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	746	746	746	746	746	
5	744	743	746	739	737	70
15	708	705	705	695	694	197
25	632	635	625	616	610	287
35	540	537	525	513	511	328
45	431	430	416	404	400	322
55	322	321	308	299	296	275
65	210	209	201	197	195	200
75	107	108	105	105	103	112
85	24	26	26	29	27	31
90	0	0	0	0	0	
95	46	12	13	13	13	20
105	161	173	51	27	29	103
115	310	322	329	333	245	303
125	458	463	475	483	486	423
135	587	599	601	610	611	465
145	705	713	712	717	718	447
155	787	801	802	797	797	368
165	847	850	862	857	857	241
175	871	868	874	868	868	83
180	874	874	874	874	874	



LEGEND:

0-deg - - - - -
45-deg - - - - -
90-deg - - - - -

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	555	13.0
0- 40	884	20.7
0- 60	1481	34.6
0- 90	1825	42.7
90-120	426	10.0
90-130	849	19.8
90-150	1760	41.2
90-180	2453	57.3
0-180	4277	100.0

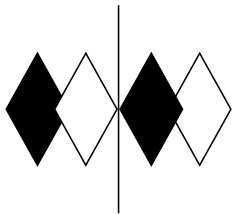
EFFICACY = 68.2 Lm/W

CIE TYPE - DIRECT-INDIRECT

PLANE : 0-DEG 90-DEG

SPACING CRITERIA : 1.18 1.13

Checked S. BERGIN
Approved R. BEATTIE
Lighting Engineer



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

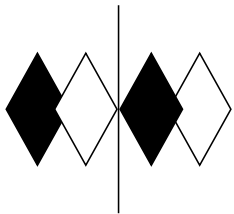
PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71681
ISSUE DATE: 02/17/12
PREPARED FOR: PRUDENTIAL LIGHTING

PAGE: 2 OF 6

PLANE : 0-DEG 90-DEG
LUMINOUS LENGTH : 48.000 3.875

LUMINANCE DATA IN CANDELA/SQ M				
ANGLE	AVERAGE	AVERAGE	AVERAGE	
IN DEG	0-DEG	45-DEG	90-DEG	
45	5079.	4903.	4714.	
55	4678.	4475.	4301.	
65	4141.	3963.	3845.	
75	3445.	3381.	3316.	
85	2295.	2486.	2582.	



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71681
ISSUE DATE: 02/17/12
PREPARED FOR: PRUDENTIAL LIGHTING

PAGE: 3 OF 6

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	746	746	746	746	746
5.0	744	743	746	739	737
10.0	729	730	735	722	722
15.0	708	705	705	695	694
20.0	672	673	670	662	656
25.0	632	635	625	616	610
30.0	587	588	579	566	560
35.0	540	537	525	513	511
40.0	486	486	472	461	458
45.0	431	430	416	404	400
50.0	373	375	360	352	344
55.0	322	321	308	299	296
60.0	264	264	252	246	242
65.0	210	209	201	197	195
70.0	158	158	150	149	147
75.0	107	108	105	105	103
80.0	60	64	63	63	62
85.0	24	26	26	29	27
90.0	0	0	0	0	0
95.0	46	12	13	13	13
100.0	97	78	20	23	24
105.0	161	173	51	27	29
110.0	233	246	255	107	39
115.0	310	322	329	333	245
120.0	385	395	402	411	417
125.0	458	463	475	483	486
130.0	527	533	541	548	553
135.0	587	599	601	610	611
140.0	652	661	661	669	669
145.0	705	713	712	717	718
150.0	752	762	761	761	762
155.0	787	801	802	797	797
160.0	821	829	838	831	830
165.0	847	850	862	857	857
170.0	863	860	869	867	871
175.0	871	868	874	868	868
180.0	874	874	874	874	874



INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71681
ISSUE DATE: 02/17/12
PREPARED FOR: PRUDENTIAL LIGHTING

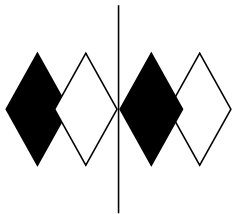
PAGE: 4 OF 6

5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	18.
5- 10	53.
10- 15	85.
15- 20	113.
20- 25	136.
25- 30	152.
30- 35	162.
35- 40	166.
40- 45	165.
45- 50	157.
50- 55	145.
55- 60	130.
60- 65	111.
65- 70	90.
70- 75	67.
75- 80	45.
80- 85	24.
85- 90	7.
90- 95	5.
95-100	15.
100-105	35.
105-110	68.
110-115	126.
115-120	177.
120-125	202.
125-130	220.
130-135	231.
135-140	234.
140-145	230.
145-150	217.
150-155	197.
155-160	171.
160-165	139.
165-170	102.
170-175	62.
175-180	21.

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	70.
0- 20	268.
0- 30	555.
0- 40	884.
0- 50	1206.
0- 60	1481.
0- 70	1681.
0- 80	1793.
0- 90	1825.
0-100	1844.
0-110	1947.
0-120	2250.
0-130	2673.
0-140	3138.
0-150	3585.
0-160	3953.
0-170	4194.
0-180	4277.



REPORT NUMBER: ITL71681

PAGE: 5 OF 6

ISSUE DATE: 02/17/12

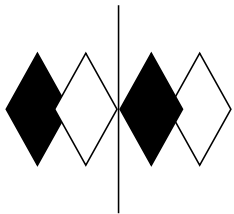
PREPARED FOR: PRUDENTIAL LIGHTING

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.



itl boulder
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL71681
ISSUE DATE: 02/17/12
PREPARED FOR: PRUDENTIAL LIGHTING

PAGE: 6 OF 6

ADDRESS: 1737 E 22ND STREET
LOS ANGELES, CA 90058

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.