

REPORT NUMBER: ITL81046

PAGE: 1 OF 5

ISSUE DATE: 03/21/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: PPXX-MO-40K-120

LUMINAIRE: EXTRUDED METAL HOUSING, CAST METAL END CAPS WITH FLAT BLACK PLASTIC INTERIOR INSERT, FORMED WHITE PAINTED METAL REFLECTOR/CIRCUIT BOARD MOUNT, 4 WHITE CIRCUIT BOARDS EACH WITH 36 LEDS, OPEN TOP.

LAMPS: ONE HUNDRED FORTY-FOUR WHITE LIGHT EMITTING DIODES (LEDs), AIMED 35-DEGREES ABOVE THE HORIZON.

TOTAL INPUT WATTS = 24.8 AT 120.0 VOLTS

MOUNTING: WALL

LED DRIVER: OSRAM OT30W/PRG1050C/UNV/DIM/L,
DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT
AND LED OUTPUT LEADS CONNECTED FOR THIS
TEST, CLIENT STATES DRIVER PROGRAMMED FOR
500mA OUTPUT.

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

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION

FLUX

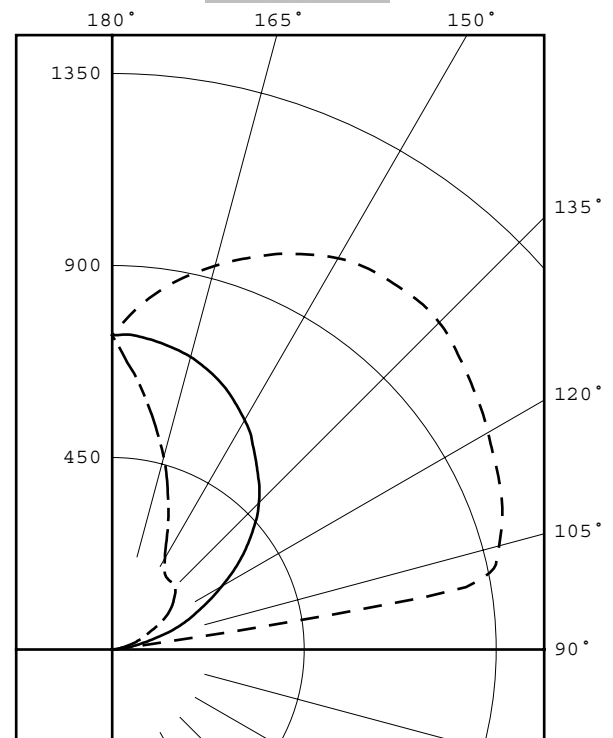
	0.0	45.0	90.0	135.0	180.0	
90	0	0	0	0	0	
95	2	4	19	13	12	89
105	939	705	108	49	42	365
115	995	800	231	117	97	425
125	1040	892	366	158	168	451
135	1084	954	486	193	207	439
145	1078	955	577	259	216	383
155	1023	927	657	390	307	304
165	931	878	710	531	467	199
175	814	799	736	671	641	69
180	736	736	736	736	736	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 90	0	0.0
90-120	878	32.2
90-130	1330	48.8
90-150	2152	79.0
90-180	2724	100.0
0-180	2724	100.0

EFFICACY = 109.8 lm/W

CIE TYPE - INDIRECT



LEGEND:

0-deg ————
90-deg ————
180-deg ————

Checked M. KLOPF
Approved R. BEATTIE
Lighting Engineer



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: ITL81046

PAGE: 2 OF 5

ISSUE DATE: 03/21/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CANDELA DISTRIBUTION

LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0
90.0	0	0	0	0	0	0	0	0	0
92.5	0	0	1	2	4	4	4	4	4
95.0	2	3	4	270	19	14	13	12	12
97.5	7	8	608	315	41	26	23	22	22
100.0	842	835	650	342	55	29	23	21	20
102.5	921	858	679	377	79	47	35	31	30
105.0	939	879	705	422	108	64	49	44	42
107.5	957	899	728	467	144	78	65	58	57
110.0	973	920	752	509	175	89	86	72	70
112.5	985	935	772	545	203	98	104	87	83
115.0	995	946	800	578	231	103	117	104	97
117.5	1005	958	825	608	264	112	131	123	118
120.0	1017	975	849	637	297	123	141	140	137
122.5	1030	990	871	663	332	138	150	155	154
125.0	1040	1005	892	684	366	157	158	167	168
127.5	1052	1017	910	703	398	179	165	177	180
130.0	1063	1031	928	722	429	207	174	186	190
132.5	1076	1045	944	743	460	239	185	197	201
135.0	1084	1054	954	757	486	268	193	203	207
137.5	1088	1059	960	768	511	297	203	207	211
140.0	1086	1056	959	775	532	323	214	207	210
142.5	1082	1053	957	781	554	352	234	209	211
145.0	1078	1050	955	790	577	381	259	218	216
147.5	1071	1045	952	797	602	412	291	237	228
150.0	1059	1032	945	801	621	441	322	261	247
152.5	1042	1015	936	803	639	469	354	289	272
155.0	1023	998	927	806	657	497	390	325	307
157.5	1003	982	916	807	673	525	426	363	345
160.0	979	961	904	806	687	553	461	404	382
162.5	956	941	892	805	699	582	496	445	425
165.0	931	919	878	802	710	608	531	484	467
167.5	905	895	862	796	718	632	568	524	507
170.0	878	870	843	788	725	654	603	566	550
172.5	847	841	822	777	731	676	638	609	595
175.0	814	811	799	766	736	696	671	651	641
177.5	776	776	771	752	739	716	703	691	684
180.0	736	736	736	736	736	736	736	736	736



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: ITL81046

PAGE: 3 OF 5

ISSUE DATE: 03/21/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

5-DEGREE

ZONAL LUMEN SUMMARY

90- 95	7
95-100	82
100-105	172
105-110	192
110-115	207
115-120	218
120-125	225
125-130	226
130-135	224
135-140	215
140-145	200
145-150	183
150-155	163
155-160	141
160-165	114
165-170	84
170-175	52
175-180	18

10-DEGREE

ZONAL LUMEN SUMMARY

90-100	89
90-110	453
90-120	878
90-130	1330
90-140	1769
90-150	2152
90-160	2456
90-170	2655
90-180	2724



REPORT NUMBER: ITL81046

PAGE: 4 OF 5

ISSUE DATE: 03/21/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

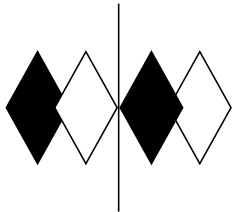
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.



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: ITL81046

PAGE: 5 OF 5

ISSUE DATE: 03/21/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

ADDRESS: 4830 TIMBER CREEK DRIVE
HOUSTON, TX 77017

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.