

REPORT NUMBER: ITL81045

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ISSUE DATE: 03/18/14

PREPARED FOR: PRECISION ARCHITECTURAL LIGHTING

CATALOG NUMBER: PPXX-HO-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 = 40.6 AT 120.0 VOLTS

MOUNTING: WALL

LED DRIVER: OSRAM OT50W/PRG1400C/UNV/DIM/L,
DRIVER HAS MULTIPLE LEADS, ONLY LINE INPUT
AND LED OUTPUT LEADS CONNECTED FOR THIS
TEST, CLIENT STATES DRIVER PROGRAMMED FOR
800mA 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

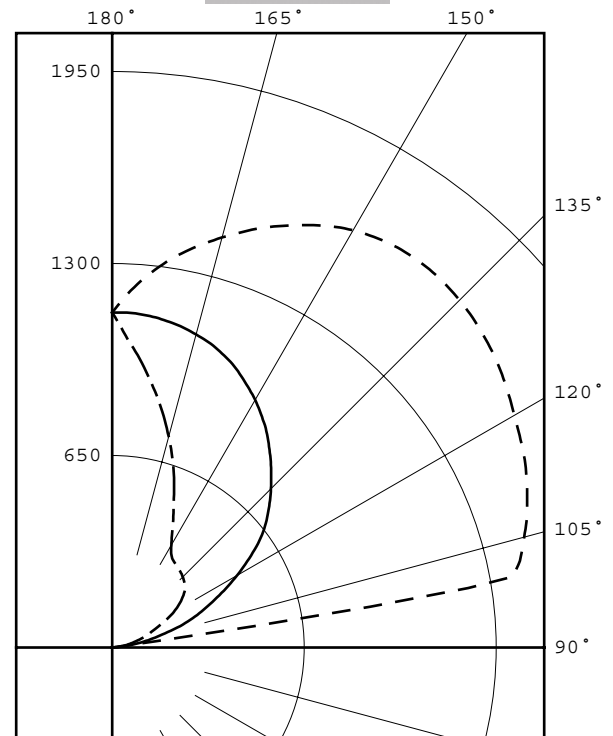
TEST DISTANCE = 35.0 FEET



CANDELA DISTRIBUTION						FLUX
	0.0	45.0	90.0	135.0	180.0	
90	0	0	0	0	0	
95	5	8	29	19	18	140
105	1444	1086	185	95	86	575
115	1538	1244	383	209	177	673
125	1611	1385	596	276	289	715
135	1663	1467	760	316	338	685
145	1661	1475	906	422	360	599
155	1578	1432	1022	621	490	474
165	1437	1354	1097	838	739	309
175	1256	1231	1132	1038	993	107
180	1134	1134	1134	1134	1134	

ZONAL LUMEN SUMMARY		
ZONE	LUMENS	%FIXT
0- 90	0	0.0
90-120	1388	32.5
90-130	2103	49.2
90-150	3387	79.2
90-180	4277	100.0
0-180	4277	100.0

EFFICACY = 105.3 lm/W
CIE TYPE - INDIRECT



LEGEND:
0-deg -----
90-deg -----
180-deg -----

Checked M. KLOPF
Approved R. BEATTIE
Lighting Engineer



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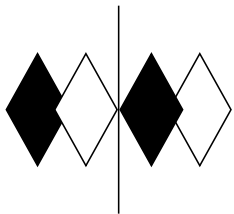
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CANDELA DISTRIBUTION

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	1	1	1	10	7	7	7	6	6
95.0	5	6	8	414	29	21	19	18	18
97.5	12	79	907	482	63	40	35	32	32
100.0	1371	1283	1001	539	100	61	52	48	48
102.5	1417	1320	1047	594	141	91	73	66	66
105.0	1444	1353	1086	661	185	118	95	87	86
107.5	1472	1383	1122	729	241	139	118	109	108
110.0	1495	1412	1157	794	290	157	150	131	130
112.5	1518	1438	1196	854	335	174	182	156	150
115.0	1538	1462	1244	910	383	189	209	189	177
117.5	1555	1482	1285	954	435	205	231	220	210
120.0	1572	1508	1321	997	488	222	249	247	241
122.5	1592	1534	1354	1037	542	245	264	270	267
125.0	1611	1556	1385	1070	596	274	276	290	289
127.5	1628	1577	1415	1097	644	308	287	305	308
130.0	1642	1594	1438	1121	685	346	297	315	321
132.5	1654	1608	1455	1143	723	387	306	325	330
135.0	1663	1618	1467	1166	760	429	316	332	338
137.5	1669	1627	1475	1184	797	474	330	338	344
140.0	1671	1630	1479	1199	834	522	352	344	349
142.5	1668	1628	1479	1212	870	567	383	351	354
145.0	1661	1621	1475	1224	906	613	422	364	360
147.5	1648	1608	1467	1234	937	657	465	386	373
150.0	1631	1591	1458	1242	968	702	514	423	400
152.5	1607	1568	1447	1247	995	746	567	468	440
155.0	1578	1542	1432	1250	1022	788	621	520	490
157.5	1546	1515	1416	1252	1047	830	675	581	546
160.0	1513	1484	1397	1250	1066	870	731	643	612
162.5	1476	1452	1377	1246	1084	911	786	707	676
165.0	1437	1416	1354	1239	1097	948	838	767	739
167.5	1397	1381	1329	1230	1110	984	891	828	803
170.0	1355	1341	1300	1215	1119	1017	941	888	866
172.5	1308	1297	1267	1199	1127	1047	990	945	929
175.0	1256	1250	1231	1179	1132	1076	1038	1002	993
177.5	1198	1194	1188	1156	1135	1102	1084	1061	1056
180.0	1134	1134	1134	1134	1134	1134	1134	1134	1134



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5-DEGREE

ZONAL LUMEN SUMMARY

90- 95	10
95-100	130
100-105	272
105-110	302
110-115	327
115-120	346
120-125	357
125-130	358
130-135	350
135-140	335
140-145	313
145-150	286
150-155	255
155-160	219
160-165	178
165-170	131
170-175	80
175-180	27

10-DEGREE

ZONAL LUMEN SUMMARY

90-100	140
90-110	715
90-120	1388
90-130	2103
90-140	2788
90-150	3387
90-160	3861
90-170	4170
90-180	4277



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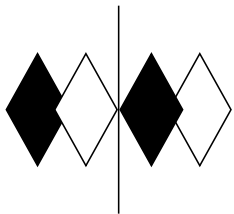
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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.



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