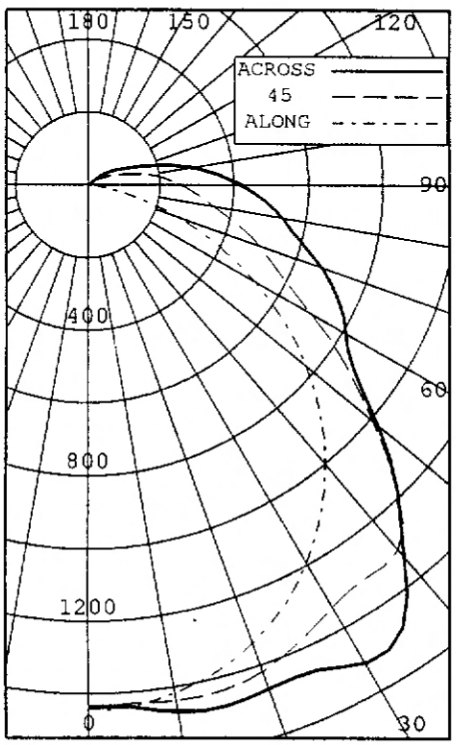
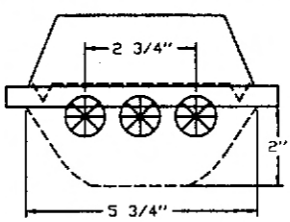
376 SERIES
WET/DAMP LOCATIONS

CERTIFIED TEST REPORT No. 20713

LDPI LIGHTING - WET/DAMP LOCATION LUMINAIRE,CAT# 376-T8-3L-4-UNV-PR
WITH WHITE INTERIOR AND RIBBED PLASTIC WRAP LENS
THREE PHILIPS 32 WATT T8 LAMPS,CAT# F32T8/TL841. LUMEN RATING = 2950 LMS.
ONE ADVANCE ICN-3P32-SC-HAZ BALLAST OPERATING AT 120 VAC AND 74 WATTS





INTENSITY(CANDLEPOWER) SUMMARY

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1437	1437	1437	1437	1437	
5	1439	1427	1433	1442	1443	139
15	1381	1392	1438	1473	1482	404
25	1269	1306	1376	1440	1472	635
35	1100	1158	1315	1464	1484	813
45	890	997	1184	1174	1183	844
55	648	825	848	872	878	739
65	399	495	576	708	750	585
75	160	258	429	559	599	432
85	30	131	304	439	483	309
90	12	89	257	379	419	
95	10	64	215	321	355	213
105	5	27	116	192	216	119
115	1	1	54	94	106	52
125	0	0	7	43	56	18
135	0	0	0	3	6	2
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1178	13.31	22.21
0-40	1990	22.50	37.53
0-60	3574	40.39	67.38
0-90	4900	55.38	92.38
40-90	2909	32.88	54.85
60-90	1326	14.98	25.00
90-180	404	4.57	7.62
0-180	5305	59.94	100.00

** EFFICIENCY: 59.9% **

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	6526	7111	6718
55	5760	5750	5533
65	4682	4642	5503
75	2897	4424	5453
85	1289	4560	6023

PAINT REFLECTANCE: 0.84 , S/MH: 1.5
SC(ALONG): 1.2, SC(ACROSS): 1.5

CERTIFIED BY:

DATE:
DEC 20, 2005

PREPARED FOR:
LDPI LIGHTING
EAU CLAIRE, WI

TESTED IN ACCORDANCE WITH IES PROCEDURES.

LDPI LIGHTING - WET/DAMP LOCATION LUMINAIRE,CAT# 376-T8-3L-4-UNV-PR
WITH WHITE INTERIOR AND RIBBED PLASTIC WRAP LENS
THREE PHILIPS 32 WATT T8 LAMPS,CAT# F32T8/TL841. LUMEN RATING = 2950 LMS.
ONE ADVANCE ICN-3P32-SC-HAZ BALLAST OPERATING AT 120 VAC AND 74 WATTS

INTENSITY(CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	LUMENS
0	1437	1437	1437	1437	1437	1437	
5	1439	1427	1433	1442	1443	1436	139
10	1417	1413	1440	1464	1472	1440	
15	1381	1392	1438	1473	1482	1434	404
20	1332	1359	1417	1455	1470	1408	
25	1269	1306	1376	1440	1472	1373	635
30	1191	1238	1332	1465	1516	1347	
35	1100	1158	1315	1464	1484	1307	813
40	1000	1072	1304	1339	1329	1220	
45	890	997	1184	1174	1183	1098	844
50	772	927	1005	1025	1023	964	
55	648	825	848	872	878	827	739
60	522	665	696	765	806	697	
65	399	495	576	708	750	588	585
70	275	359	505	639	680	495	
75	160	258	429	559	599	407	432
80	74	188	355	492	539	336	
85	30	131	304	439	483	283	309
90	12	89	257	379	419	235	
95	10	64	215	321	355	196	213
100	9	44	167	259	286	154	
105	5	27	116	192	216	111	119
110	2	10	81	133	152	75	
115	1	1	54	94	106	51	52
120	0	0	27	70	80	34	
125	0	0	7	43	56	20	18
130	0	0	0	16	26	7	
135	0	0	0	3	6	2	2
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

CD./SQ.M. (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	7749(2261)	7749(2261)	7749(2261)	7749(2261)	7749(2261)
30	7246(2115)	7038(2054)	7175(2094)	7656(2234)	7856(2293)
40	6807(1986)	6619(1932)	7468(2179)	7364(2149)	7238(2112)
45	6526(1904)	6507(1899)	7111(2075)	6715(1960)	6718(1960)
50	6179(1803)	6489(1894)	6351(1853)	6154(1796)	6064(1770)
55	5760(1681)	6250(1824)	5750(1678)	5553(1620)	5533(1615)
60	5261(1535)	5553(1621)	5093(1486)	5223(1524)	5424(1583)
65	4682(1366)	4632(1352)	4642(1355)	5262(1536)	5503(1606)
70	3901(1138)	3874(1130)	4552(1328)	5246(1531)	5481(1599)
75	2897(845)	3296(962)	4424(1291)	5180(1512)	5453(1591)
80	1877(548)	2985(871)	4332(1264)	5256(1534)	5631(1643)
85	1289(376)	2766(807)	4560(1331)	5615(1639)	6023(1757)

LDPI LIGHTING - WET/DAMP LOCATION LUMINAIRE,CAT# 376-T8-3L-4-UNV-PR
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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																						
0	0.72	0.72	0.72	0.72	0.70	0.70	0.70	0.70	0.68	0.68	0.68	0.68	0.64	0.64	0.64	0.60	0.60	0.60	0.57	0.57	0.57	0.55
1	0.66	0.62	0.59	0.56	0.64	0.60	0.58	0.55	0.61	0.59	0.56	0.54	0.55	0.53	0.51	0.52	0.50	0.49	0.49	0.48	0.47	0.45
2	0.60	0.54	0.50	0.46	0.58	0.53	0.48	0.45	0.56	0.51	0.47	0.44	0.48	0.45	0.42	0.45	0.43	0.40	0.43	0.41	0.39	0.37
3	0.54	0.47	0.42	0.38	0.53	0.46	0.41	0.37	0.51	0.45	0.40	0.37	0.43	0.39	0.36	0.40	0.37	0.34	0.38	0.36	0.33	0.32
4	0.50	0.42	0.36	0.32	0.48	0.41	0.36	0.32	0.47	0.40	0.35	0.31	0.38	0.34	0.30	0.36	0.32	0.29	0.34	0.31	0.28	0.27
5	0.46	0.37	0.31	0.27	0.44	0.36	0.31	0.27	0.42	0.35	0.30	0.26	0.33	0.29	0.26	0.32	0.28	0.25	0.30	0.27	0.24	0.23
6	0.42	0.33	0.27	0.23	0.40	0.32	0.27	0.23	0.39	0.31	0.26	0.23	0.30	0.25	0.22	0.28	0.25	0.22	0.27	0.24	0.21	0.20
7	0.38	0.30	0.24	0.21	0.37	0.29	0.24	0.20	0.36	0.28	0.23	0.20	0.27	0.22	0.19	0.26	0.22	0.19	0.25	0.21	0.18	0.17
8	0.35	0.27	0.21	0.17	0.34	0.26	0.21	0.17	0.33	0.25	0.20	0.17	0.24	0.20	0.17	0.23	0.19	0.16	0.22	0.18	0.16	0.15
9	0.33	0.24	0.19	0.15	0.32	0.23	0.18	0.15	0.30	0.23	0.18	0.15	0.22	0.17	0.14	0.21	0.17	0.14	0.20	0.16	0.14	0.13
10	0.30	0.22	0.16	0.13	0.29	0.21	0.16	0.13	0.28	0.21	0.16	0.13	0.20	0.16	0.13	0.19	0.15	0.12	0.18	0.15	0.12	0.11

LUMINAIRE INPUT WATTS = 74.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.

LDPI LIGHTING - WET/DAMP LOCATION LUMINAIRE,CAT# 376-T8-3L-4-UNV-PR
WITH WHITE INTERIOR AND PRISMATIC PLASTIC WRAP LENS
THREE PHILIPS 32 WATT T8 LAMPS,CAT# F32T8/TL841
ONE ADVANCE ICN-3P32-SC-HAZ BALLAST OPERATING AT 120 VAC AND 74 WATTS
LDPI LIGHTING
EAU CLAIRE, WI 0 0 0 0 0 2071324.00 0.0
53138400001000000020 0 0.0 2 2950 50 5.75 2 2 74 0.0 739.55
1107.6 1113.9 1125.3 1141.1 1152.5 1158.4 1160.0 1156.0 1157.6 1160.1 1164.7 1172.5 1183.8 1182.2 1157.2 1100.8
1034.5 984.2 944.9 892.1 827.9 764.0 714.2 682.0 659.4 639.9 616.0 588.1 558.2 523.8 490.3 460.4
439.4 415.8 392.9 369.8 343.1 318.6 296.0 270.2 243.9 218.5 192.7 165.6 141.1 119.0 101.0 86.7
75.5 64.8 54.1 42.5 30.2 18.5 11.1 5.6 2.1 1.6 1.6 1.5 1.5 1.5 1.5 1.5
1.6 1.7 1.7 1.8 1.8 1.8 1.7 1.6 1.6 1.6 1.6 1.5 1.6 1.5 1.5 1.4
1.4 1.3 1.2 1.2 1.1 1.2 1.1 1.1 1.1 1.1 2.3 7.0 13.8 24.3 35.6 44.8
52.0 57.7 66.0 80.2 96.4 117.7 143.6 172.1 200.3 227.2 254.4 280.6 305.5 328.3 353.2 375.0
393.7 411.7 435.3 460.8 491.5 517.9 541.7 565.3 584.1 605.3 639.5 688.3 748.8 813.6 878.2 943.3
1012.4 1082.9 1128.5 1149.9 1150.5 1128.5 1102.4 1096.6 1106.1 1117.1 1123.3 1121.1 1114.7 1106.8 1098.2 1098.5
0 0 0 0
1106.8 1113.1 1123.3 1136.9 1147.4 1152.1 1155.1 1149.0 1143.9 1145.8 1144.9 1146.1 1153.5 1157.9 1146.9 1106.4
1044.7 983.1 934.2 887.3 829.2 768.8 714.7 663.1 631.1 609.0 586.5 558.8 532.8 500.1 465.5 431.8
405.4 383.4 360.7 339.2 313.7 289.1 268.3 246.6 223.4 199.3 173.3 146.8 123.4 105.0 90.2 77.6
66.2 55.1 44.4 33.4 20.7 12.4 6.7 2.4 1.6 1.6 1.5 1.5 1.5 1.5 1.5 1.6
1.5 1.6 1.6 1.7 1.7 1.7 1.7 1.6 1.6 1.5 1.5 1.5 1.4 1.4 1.4
1.4 1.3 1.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 2.6 7.3 14.0 25.9 36.6
45.1 51.8 58.9 69.2 84.8 103.1 125.4 151.2 178.6 205.1 229.9 251.6 272.4 294.1 317.6 337.2
355.1 374.4 398.4 427.8 454.4 480.2 506.3 527.0 549.2 582.8 630.4 689.7 751.6 813.0 874.7 943.1
1017.4 1076.9 1107.9 1116.2 1103.8 1081.4 1072.5 1082.0 1096.9 1107.7 1113.1 1112.1 1107.9 1102.3 1097.5 1097.9
0 0 0 0
1103.6 1109.3 1114.9 1121.7 1128.4 1131.9 1129.2 1124.5 1114.5 1099.8 1088.0 1077.8 1067.5 1058.5 1052.2 1046.9
1031.8 992.1 928.5 863.8 800.5 743.1 690.0 635.1 576.3 524.2 484.4 455.2 427.9 396.7 366.9 335.7
304.7 281.3 260.3 238.4 217.9 199.3 183.2 167.3 149.9 129.8 109.1 90.9 78.0 65.8 54.1 43.0
32.3 21.3 12.7 7.0 2.4 1.5 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.5 1.5 1.5
1.6 1.7 1.8 1.9 1.9 1.8 1.7 1.7 1.7 1.6 1.6 1.5 1.5 1.5 1.4 1.3
1.2 1.1 1.1 1.1 1.1 1.1 1.0 1.1 1.0 1.0 1.0 1.0 1.0 1.0 2.2 6.8
13.5 23.9 32.7 41.0 50.0 61.2 73.8 90.4 111.3 132.4 151.7 167.1 181.2 195.1 211.1 228.3
245.6 267.9 297.3 327.3 352.6 376.0 405.3 445.9 497.9 557.4 618.2 681.3 748.1 822.6 896.1 950.1
977.4 980.7 974.0 971.4 984.0 1006.8 1031.6 1051.8 1067.7 1078.4 1085.1 1088.8 1090.2 1090.2 1092.0 1096.6
0 0 0 0
1103.8 1106.6 1106.9 1105.2 1102.0 1097.3 1090.8 1081.7 1069.3 1051.9 1029.7 1006.3 979.8 951.2 920.6 890.5
863.5 840.2 820.1 800.4 771.9 724.6 665.3 602.5 535.3 472.6 414.5 359.0 308.2 263.3 225.0 193.8
167.6 142.1 118.6 100.0 82.8 69.4 60.3 52.2 43.9 36.7 29.2 21.5 14.0 8.0 3.5 2.3
1.7 1.5 1.2 1.1 1.1 1.2 1.1 1.2 1.3 1.3 1.3 1.3 1.4 1.4 1.5 1.5
1.6 1.7 1.8 1.9 1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.7 1.6 1.6 1.5 1.3
1.2 1.1 1.1 1.0 0.9 0.9 0.7 0.9 0.9 0.8 0.9 0.8 0.8 0.8 0.9 0.9
1.2 1.7 2.2 2.8 5.0 10.0 15.8 22.0 27.6 33.5 41.6 50.2 58.8 71.7 87.3 104.9
125.9 149.2 175.4 207.6 248.5 296.2 350.9 416.1 490.6 559.4 607.4 634.8 657.7 684.9 717.5 751.1
788.9 827.1 863.6 896.6 928.0 956.6 982.4 1005.1 1024.0 1040.5 1053.8 1064.7 1074.5 1083.7 1091.6 1098.2
0 0 0 0
1113.7 1112.7 1109.1 1103.0 1093.7 1081.8 1067.2 1050.2 1030.7 1008.8 984.3 956.8 927.2 894.9 860.3 824.2
785.9 745.7 702.9 658.5 613.1 566.2 517.7 469.1 420.5 372.7 325.8 279.1 230.1 182.7 138.6 99.7
68.0 44.2 30.6 19.6 13.2 11.3 11.2 10.9 9.9 8.5 7.1 5.7 4.5 3.7 3.1 2.6
2.2 1.8 1.5 1.3 1.2 1.1 1.1 1.1 1.1 1.1 1.2 1.2 1.2 1.3 1.3 1.4
1.5 1.5 1.6 1.8 1.9 1.9 1.8 1.8 1.8 1.7 1.7 1.7 1.6 1.7 1.6 1.4
1.3 1.2 1.2 1.1 1.0 0.8 0.9 0.8 0.8 0.8 0.8 0.9 0.7 0.8 0.9 1.1
1.3 1.7 2.1 2.5 3.0 3.7 4.9 6.2 7.4 8.4 8.9 9.0 9.4 12.9 20.1 31.7
50.1 76.9 111.2 151.6 196.3 243.0 291.0 338.0 385.8 434.1 482.5 530.7 577.7 624.4 669.9 713.6
755.3 796.0 835.1 872.7 908.0 940.4 970.2 997.0 1020.9 1042.2 1060.5 1076.0 1088.9 1099.4 1107.0 1111.8
0 0 0 0

LINEAR FLUORESCENT CALIBRATION FORM

DATE 12-7-05 TEST # 20713-20714

LAMP TYPE T8 NO. OF LAMPS 3 LSI LAMP #s 613, 612, 611

SMALL PHOTOMETER _____ LARGE PHOTOMETER X

X 1) ATTACH CALIBRATOR TO TEST BRACKET AND LEVEL

X 2) LOWER LAMPS INTO CALIBRATOR
LAMPS MUST NOT BE OFF LONGER THEN ONE MINUTE

X 3) INSERT HORIZONTAL AND VERTICAL BAFFLES IN CALIBRATOR.

X 4) SET TO CORRECT TEST HEIGHT. (CENTER OF THE SHAFT).

X 5) ALIGN LAMPS IN THE ACROSS PLANE

X 6) CHECK TEMPERATURE

X 7) TURN OFF LIGHTS IN PHOTOMETER AND CONTROL ROOM

X 8) SET MIRROR TO 0 OR 180 DEGREES

X 9) CALIBRATE ON SAME SCALE AS TEST WAS RUN ON.

X 10) ALLOW LAMPS TO STABILIZE MINIMUM OF 15 MINUTES THEN RECORD FIRST MV READING.

X 11) ROTATE LAMPS 180 DEGREES. DO NOT ROTATE U-LAMPS.

X 12) ALLOW LAMPS TO STABILIZE MINIMUM OF 15 MINUTES THEN RECORD SECOND MV READING.

	FIRST SET		SECOND SET	
	FIRST SIDE	SECOND SIDE	FIRST SIDE	SECOND SIDE
VOLTAGE	120.0	120.0		
WATTAGE	84.4	84.1		
TEMPERATURE (°F) (°C)	77.1	77.2		
SCALE	4	4		
MV (MILLIVOLT)	739.3	739.8		
AVERAGE MV				
TOTAL AVERAGE MV FOR LAMP FACTOR =			739.55	

TESTED BY: Trevor

USE AVERAGE MV FOR LAMP FACTOR AS RECORDED FOR STANDARD LINEAR TEST
FOR STANDARD U-LAMPS MULTIPLY FIRST MV READING BY 0.891 (8.2/9.2)
FOR CIRCLELINE - LAMPS MULTIPLY FIRST MV READING BY 1.065 (9.8/9.2)