

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 240p101

Luminaire Tested: **PDR-HDF332T8A434**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 240p101
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: PDR-HDF332T8A434
Description: 4 FT PDR SERIES LUMINAIRE WITH CLEAR CYLINDRICAL LENS
Light Source: THREE- F032 / 735 - 2800 LUMEN EA. - 32 WATTS EA.
Ballast/Driver: ONE -PROLINE - GE 132-120N & ONE PROLINE - GE 232-120N

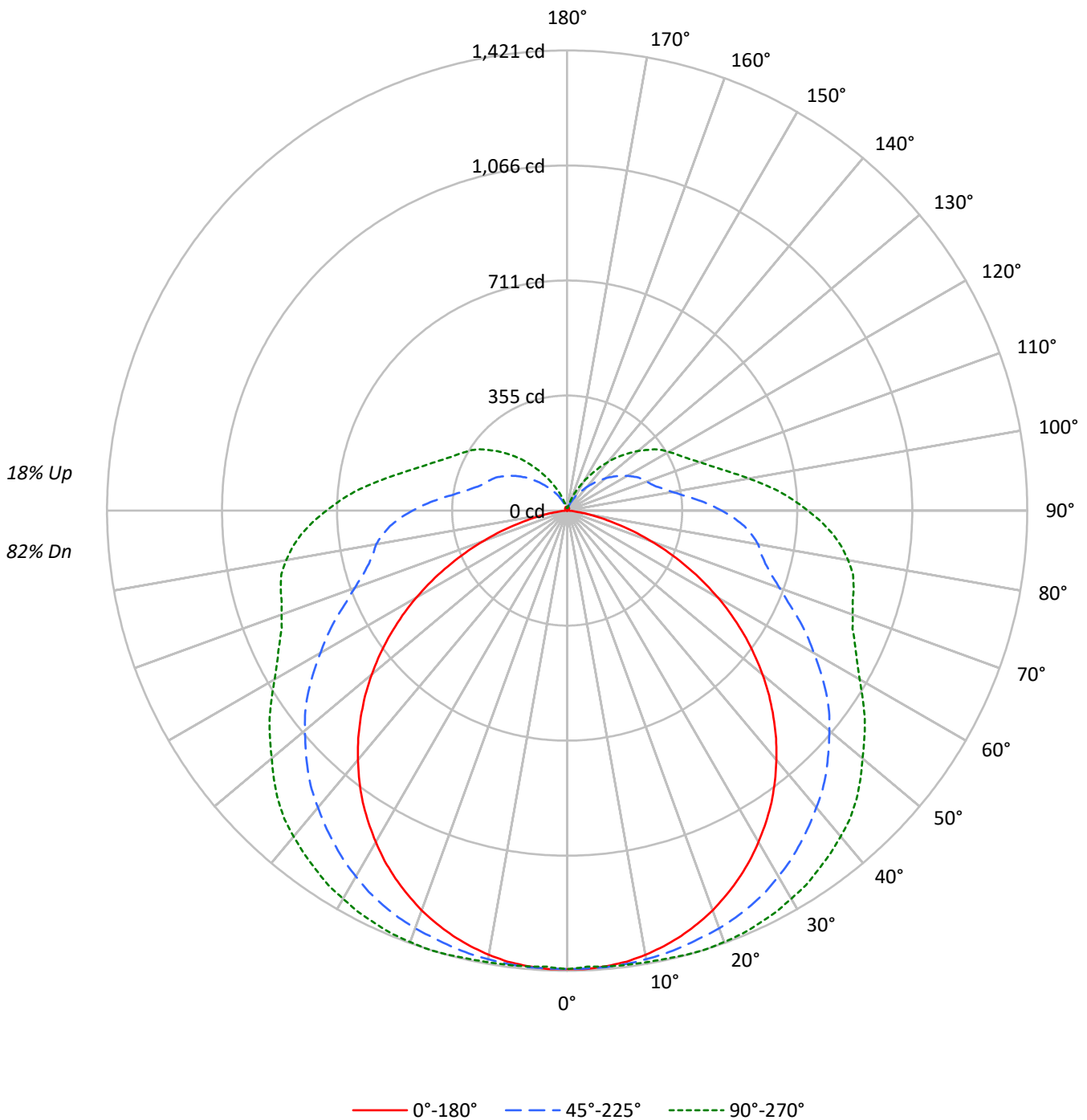
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6720.5 lumens
Efficiency: 80.0%
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.46 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.06' x H: 0.26')
CIE Type: Semi-Direct

Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: 240p101
CATALOG NUMBER: PDR-HDF332T8A434

Luminous Intensity Polar Plot





TEST NUMBER: 240p101

CATALOG NUMBER: PDR-HDF332T8A434

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	92	92	92	92	88	88	88	88	81	81	81	74	74	74	68	68	68	66
1	81	76	72	68	77	73	69	66	67	64	61	61	59	57	56	54	52	50
2	73	65	59	54	69	63	57	52	57	53	49	52	49	45	48	45	42	40
3	66	57	49	44	63	54	48	42	50	44	40	46	41	37	42	38	35	32
4	60	50	42	36	57	48	41	35	44	38	33	40	35	31	37	33	29	27
5	55	44	37	31	52	42	35	30	39	33	28	36	31	27	33	29	25	23
6	51	40	32	27	48	38	31	26	35	29	25	32	27	23	30	25	22	20
7	47	36	28	23	45	34	28	23	32	26	22	29	24	20	27	23	19	17
8	44	32	25	21	41	31	25	20	29	23	19	27	22	18	25	20	17	15
9	41	30	23	18	39	29	22	18	27	21	17	25	20	16	23	19	15	14
10	38	27	21	16	36	26	20	16	24	19	15	23	18	15	21	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7504	7504	7504
5°	7470	7269	7195
10°	7413	7066	6990
15°	7338	6888	6853
20°	7244	6747	6744
25°	7123	6614	6640
30°	6979	6471	6541
35°	6816	6324	6448
40°	6604	6179	6364
45°	6353	6042	6267
50°	6044	5876	6105
55°	5646	5711	5996
60°	5142	5480	5867
65°	4475	5279	5873
70°	3647	5117	6050
75°	2621	5166	6456
80°	1485	5541	6903
85°	495	5926	7322



TEST NUMBER: 240p101

CATALOG NUMBER: PDR-HDF332T8A434

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	134.7	2.0	1.6	0°	1416	1416	1416	1416	1416	
10°-20°	393.6	5.9	4.7	5°	1412	1411	1415	1418	1413	134
20°-30°	617.1	9.2	7.3	15°	1360	1371	1392	1414	1420	384
30°-40°	777.5	11.6	9.3	25°	1254	1283	1345	1392	1406	578
40°-50°	854.4	12.7	10.2	35°	1100	1156	1255	1330	1353	687
50°-60°	835.3	12.4	9.9	45°	901	986	1133	1231	1263	694
60°-70°	738.5	11.0	8.8	55°	666	788	976	1080	1122	594
70°-80°	628.3	9.3	7.5	65°	405	571	787	923	981	401
80°-90°	527.4	7.8	6.3	75°	158	356	634	841	916	172
90°-100°	396.6	5.9	4.7	85°	14	222	549	753	823	23
100°-110°	284.4	4.2	3.4	90°	0	172	477	675	743	1
110°-120°	214.5	3.2	2.6	95°	1	126	399	593	660	1
120°-130°	154.5	2.3	1.8	105°	2	94	286	437	492	3
130°-140°	94.7	1.4	1.1	115°	5	67	242	355	393	5
140°-150°	46.7	0.7	0.6	125°	6	42	185	294	330	6
150°-160°	16.9	0.3	0.2	135°	8	25	124	212	241	6
160°-170°	4.2	0.1	0.1	145°	10	15	70	128	149	6
170°-180°	1.0	0.0	0.0	155°	11	12	30	59	69	5
0°-30°	1145.5	17.0	13.6	165°	12	12	12	15	16	3
0°-40°	1923.0	28.6	22.9	175°	12	12	11	10	8	1
0°-60°	3612.7	53.8	43.0	180°	11	11	11	11	11	
0°-90°	5506.9	81.9	65.6							
90°-120°	895.5	13.3	10.7							
90°-150°	1191.5	17.7	14.2							
90°-180°	1214.0	18.1	14.5							
0°-180°	6720.5	100.0	80.0							



TEST NUMBER: 240p101

CATALOG NUMBER: PDR-HDF332T8A434

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416	1416	1416	1416	1416
2.5°	1417	1414	1415	1416	1410
5°	1412	1411	1415	1418	1413
7.5°	1405	1406	1412	1418	1415
10°	1393	1397	1407	1417	1416
12.5°	1378	1385	1401	1415	1417
15°	1360	1371	1392	1414	1420
17.5°	1338	1353	1382	1414	1421
20°	1314	1333	1373	1409	1418
22.5°	1285	1309	1360	1402	1414
25°	1254	1283	1345	1392	1406
27.5°	1220	1254	1327	1379	1397
30°	1182	1224	1305	1364	1384
32.5°	1142	1191	1282	1347	1372
35°	1100	1156	1255	1330	1353
37.5°	1054	1118	1227	1309	1335
40°	1005	1077	1197	1283	1314
42.5°	955	1033	1168	1257	1292
45°	901	986	1133	1231	1263
47.5°	846	938	1095	1197	1228
50°	788	888	1057	1158	1191
52.5°	728	838	1020	1117	1157
55°	666	788	976	1080	1122
57.5°	603	737	928	1040	1082
60°	538	685	880	997	1043
62.5°	472	629	835	958	1009
65°	405	571	787	923	981
67.5°	340	516	738	892	954
70°	276	459	698	868	938
72.5°	215	406	661	852	925
75°	158	356	634	841	916
77.5°	108	310	613	830	904
80°	66	273	599	809	881
82.5°	34	243	576	784	855
85°	14	222	549	753	823
87.5°	4	196	515	716	785
90°	0	172	477	675	743
92.5°	0	148	439	634	702
95°	1	126	399	593	660
97.5°	1	114	361	548	614
100°	2	107	330	506	570
102.5°	2	101	306	469	529
105°	2	94	286	437	492
107.5°	3	87	272	411	462
110°	4	80	262	388	436



TEST NUMBER: 240p101

CATALOG NUMBER: PDR-HDF332T8A434

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	4	74	252	369	413
115°	5	67	242	355	393
117.5°	5	61	228	341	378
120°	6	54	214	329	362
122.5°	6	47	200	313	348
125°	6	42	185	294	330
127.5°	7	37	170	274	307
130°	7	33	155	254	286
132.5°	7	30	139	234	264
135°	8	25	124	212	241
137.5°	8	22	109	191	219
140°	9	19	95	169	195
142.5°	9	17	81	149	172
145°	10	15	70	128	149
147.5°	10	14	60	107	126
150°	10	13	49	89	105
152.5°	11	12	38	73	85
155°	11	12	30	59	69
157.5°	11	12	23	43	53
160°	11	12	17	31	37
162.5°	12	12	13	22	26
165°	12	12	12	15	16
167.5°	12	12	12	11	11
170°	12	12	12	11	9
172.5°	12	12	11	10	9
175°	12	12	11	10	8
177.5°	12	12	11	10	8
180°	11	11	11	11	11

(END OF REPORT)