

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: LTL TEST NUMBER 07206

Luminaire Tested: **HDR-242PLT-120-93/96-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: LTL TEST NUMBER 07206
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HDR-242PLT-120-93/96-EBT1
Description: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
CLEAR GLASS PRISMATIC LENS.
Light Source: TWO SYLVANIA CF42DT/E/IN/841 RATED AT 3200 LUMENS EACH.
Ballast/Driver: ONE UNIVERSAL LIGHTING TECHNOLOGIES C242UNVSE

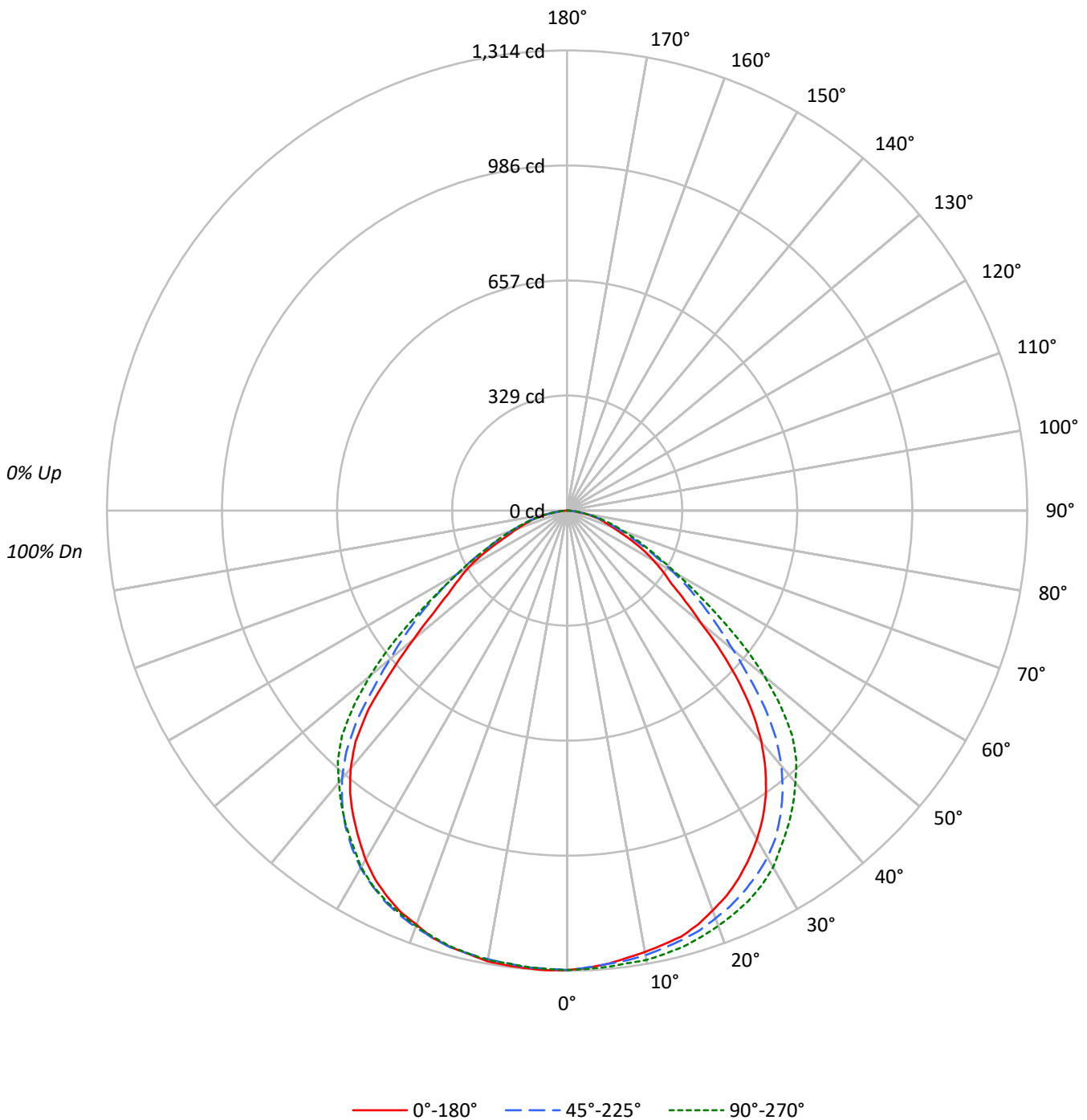
Summary

Lumens per Lamp: 3200 (2 lamps)
Luminaire Lumens: 3145.5 lumens
Efficiency: 49.1%
Efficacy: 33.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.35
Luminous Opening: Rectangular (W 0.96' x L: 0.96' x H: 0')
CIE Type: Direct

Input Watts (W): 93
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

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Luminous Intensity Polar Plot





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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	59	59	59	59	57	57	57	57	55	55	55	52	52	52	50	50	50	49
1	54	52	50	49	53	51	49	48	49	48	47	47	46	45	45	45	44	43
2	50	46	43	41	49	45	43	40	44	41	40	42	40	39	41	39	38	37
3	46	41	38	35	45	41	37	35	39	36	34	38	35	33	37	35	33	32
4	42	37	33	30	41	36	33	30	35	32	29	34	31	29	33	31	29	28
5	39	33	29	26	38	33	29	26	32	28	26	31	28	26	30	27	25	24
6	36	30	26	23	35	30	26	23	29	25	23	28	25	23	27	25	22	22
7	34	27	23	21	33	27	23	21	26	23	20	26	23	20	25	22	20	19
8	31	25	21	18	31	25	21	18	24	21	18	24	20	18	23	20	18	17
9	29	23	19	17	29	23	19	17	22	19	17	22	19	17	21	18	16	16
10	28	21	18	15	27	21	18	15	21	17	15	20	17	15	20	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15324	15324	15324
5°	15241	15335	15382
10°	15181	15453	15501
15°	15223	15574	15598
20°	15101	15686	15636
25°	14936	15825	15671
30°	14619	15860	15523
35°	14116	15684	15185
40°	13158	15460	14667
45°	11496	15014	13230
50°	9049	13355	10412
55°	7392	10813	8430
60°	6657	8456	7592
65°	5638	6881	6135
70°	4644	5839	5191
75°	4377	4874	4648
80°	3363	3699	3430
85°	2278	2278	2010



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	124.3	4.0	1.9	0°	1312	1312	1312	1312	1312	
10°-20°	361.4	11.5	5.6	5°	1300	1300	1308	1309	1312	123
20°-30°	557.6	17.7	8.7	15°	1259	1269	1288	1291	1290	355
30°-40°	669.4	21.3	10.5	25°	1159	1198	1228	1231	1216	533
40°-50°	631.8	20.1	9.9	35°	990	1062	1100	1103	1065	615
50°-60°	428.7	13.6	6.7	45°	696	801	909	849	801	530
60°-70°	238.8	7.6	3.7	55°	363	475	531	507	414	335
70°-80°	111.0	3.5	1.7	65°	204	236	249	247	222	204
80°-90°	22.6	0.7	0.4	75°	97	103	108	111	103	99
90°-100°	0.0	0.0	0.0	85°	17	17	17	16	15	22
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1043.3	33.2	16.3							
0°-40°	1712.7	54.4	26.8							
0°-60°	2773.2	88.2	43.3							
0°-90°	3145.5	100.0	49.1							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3145.5	100.0	49.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1312	1312	1312	1312	1312	1312	1312	1312	1312
2.5°	1307	1305	1306	1309	1310	1308	1309	1310	1314
5°	1300	1299	1300	1304	1308	1308	1309	1309	1312
7.5°	1289	1291	1296	1300	1304	1305	1304	1303	1310
10°	1280	1284	1289	1298	1303	1302	1301	1300	1307
12.5°	1269	1273	1279	1291	1296	1297	1296	1296	1297
15°	1259	1260	1269	1278	1288	1288	1291	1287	1290
17.5°	1240	1244	1257	1269	1276	1280	1279	1277	1279
20°	1215	1223	1239	1253	1262	1265	1266	1259	1258
22.5°	1190	1202	1221	1237	1246	1251	1250	1241	1241
25°	1159	1176	1198	1216	1228	1232	1231	1218	1216
27.5°	1123	1142	1173	1192	1205	1211	1207	1187	1187
30°	1084	1109	1144	1163	1176	1186	1179	1155	1151
32.5°	1040	1066	1108	1128	1137	1150	1143	1117	1108
35°	990	1021	1062	1090	1100	1113	1103	1075	1065
37.5°	930	963	1011	1042	1059	1068	1055	1027	1018
40°	863	899	952	995	1014	1022	1000	971	962
42.5°	785	825	883	946	969	970	933	905	894
45°	696	740	801	879	909	898	849	822	801
47.5°	598	649	704	792	827	807	750	718	681
50°	498	560	618	701	735	712	660	614	573
52.5°	425	473	542	613	636	623	582	517	481
55°	363	397	475	524	531	534	507	434	414
57.5°	324	336	409	440	439	448	434	371	367
60°	285	289	347	364	362	370	364	323	325
62.5°	246	252	287	299	300	305	304	281	274
65°	204	215	236	243	249	252	247	238	222
67.5°	165	177	192	197	209	207	204	195	179
70°	136	144	157	165	171	171	168	160	152
72.5°	114	116	127	136	139	140	137	128	125
75°	97	97	103	109	108	110	111	106	103
77.5°	72	71	79	81	82	81	81	80	78
80°	50	50	52	53	55	55	55	54	51
82.5°	32	33	33	34	35	33	33	33	31
85°	17	16	17	16	17	17	16	16	15
87.5°	7	8	6	6	8	8	7	6	7
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)