

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: HALO

Report Number: P394703

Luminaire Tested: **ALB4A**

Test Date: 11/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P394703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-573-1)  
Test Lab: INNOVATIONS CENTER(G1)  
Test Date: 11/7/2019  
Issue Date: 04/09/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ALB4A  
Description: HALO OUTDOOR BARN LIGHT LITE 40W 4000K  
Light Source: 4000K CCT, 70 CRI LEDs  
Ballast/Driver: DRB

**Summary**

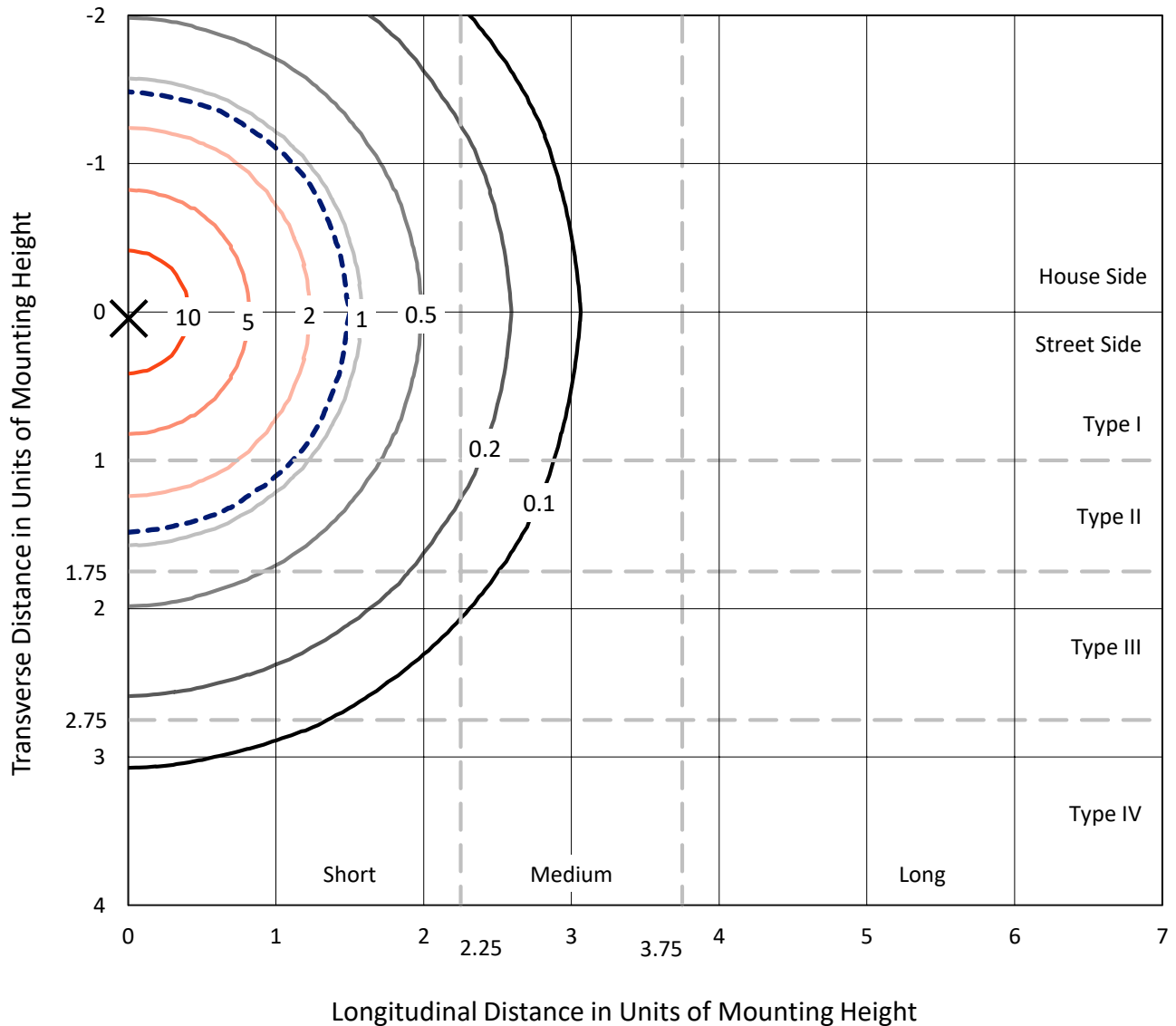
Lumens per Lamp: N/A  
Luminaire Lumens: 4032.1 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.62' x H: 0.15')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B2 - U3 - G1

Input Watts (W): 40.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.343  
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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### Iso-Footcandle Lines of Horizontal Illumination

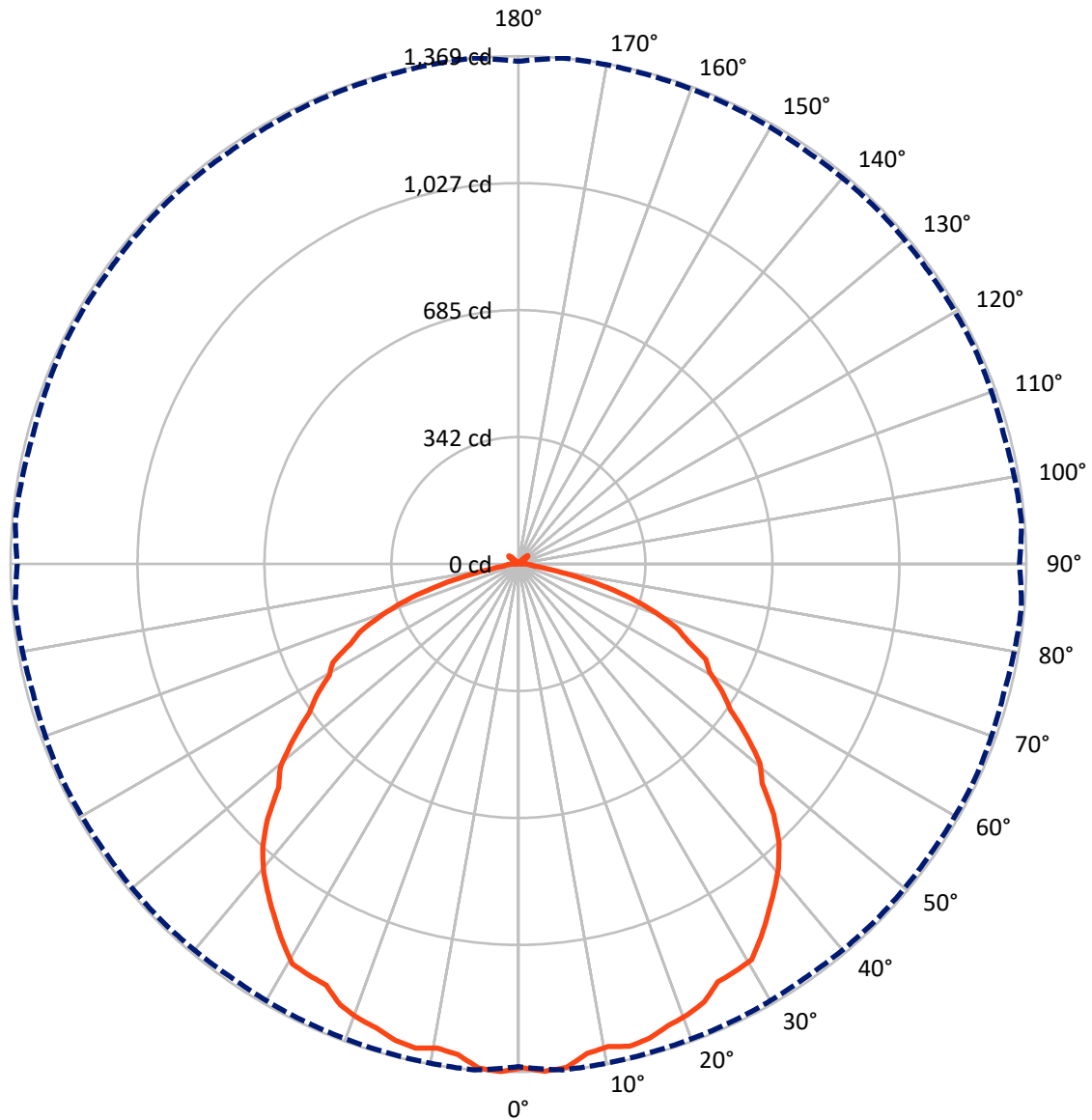
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 2.5-Deg Vertical

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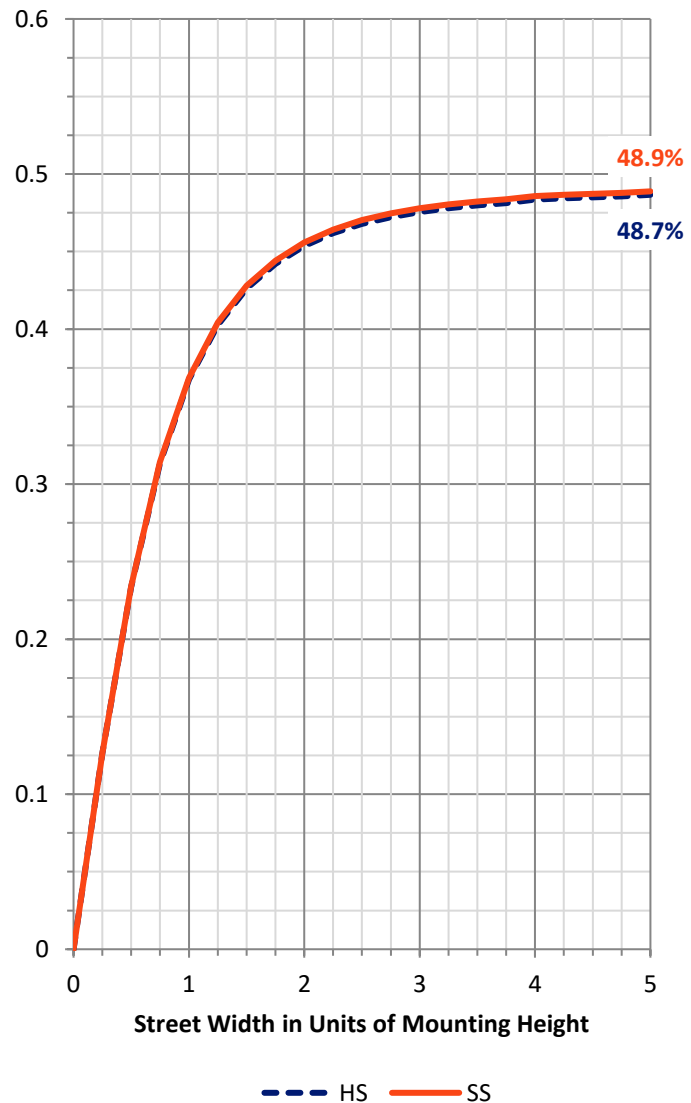
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1974.6	41.4	2016.0
	% Fixture	49.0	1.0	50.0
<b>Street Side</b>	Lumens	1974.6	41.4	2016.0
	% Fixture	49.0	1.0	50.0
<b>Total</b>	Lumens	3949.3	82.8	4032.1
	% Fixture	97.9	2.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	3.2
10°-20°	368.4	9.1
20°-30°	578.5	14.3
30°-40°	720.7	17.9
40°-50°	738.1	18.3
50°-60°	630.4	15.6
60°-70°	499.7	12.4
70°-80°	245.1	6.1
80°-90°	40.8	1.0
90°-100°	12.4	0.3
100°-110°	12.6	0.3
110°-120°	4.6	0.1
120°-130°	24.2	0.6
130°-140°	25.0	0.6
140°-150°	3.8	0.1
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3949.3	97.9
0°-180°	4032.1	100.0

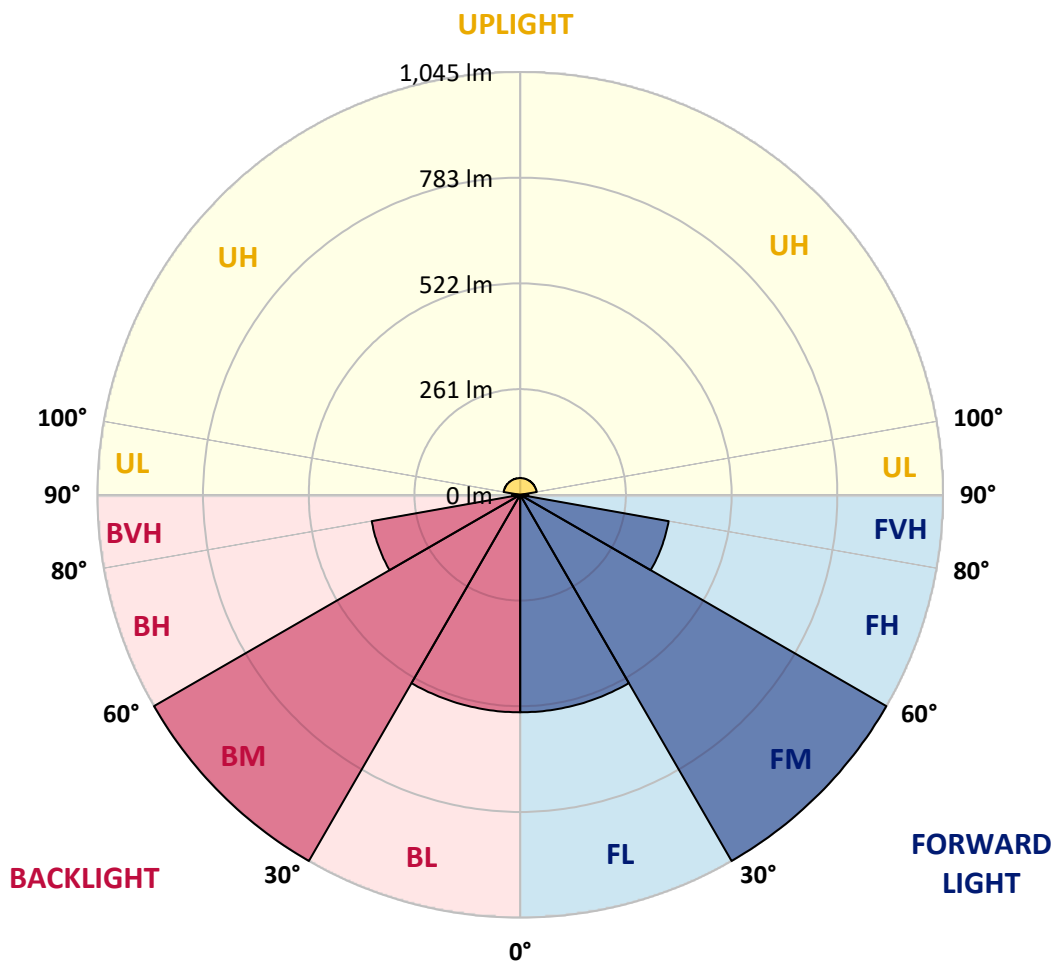


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.2	13.3			
FM	(30°-60°)	1044.6	25.9			
FH	(60°-80°)	372.4	9.2			G0/660
FVH	(80°-90°)	20.4	0.5			G1/100
BL	(0°-30°)	537.2	13.3	B2/1000		
BM	(30°-60°)	1044.6	25.9	B2/2500		
BH	(60°-80°)	372.4	9.2	B1/500		G0/660
BVH	(80°-90°)	20.4	0.5			G1/100
UL	(90°-100°)	12.4	0.3		U2/50	
UH	(100°-180°)	41.4	1.0		U2/50	

**BUG Rating: B2-U3-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358	1358
2.5°	1355	1369	1364	1361	1357	1360	1358	1360	1354	1361	1351
5°	1350	1363	1359	1355	1350	1351	1347	1349	1342	1348	1339
7.5°	1321	1332	1327	1328	1324	1331	1332	1329	1323	1334	1328
10°	1310	1323	1318	1315	1318	1320	1316	1320	1308	1318	1314
12.5°	1323	1334	1325	1326	1323	1326	1321	1318	1313	1320	1313
15°	1314	1326	1315	1307	1298	1301	1291	1302	1290	1301	1293
17.5°	1296	1308	1298	1287	1279	1279	1278	1279	1263	1276	1267
20°	1290	1298	1289	1287	1281	1288	1283	1282	1277	1280	1279
22.5°	1271	1282	1268	1271	1270	1277	1268	1272	1265	1270	1264
25°	1246	1248	1239	1241	1248	1247	1242	1249	1244	1241	1240
27.5°	1230	1244	1237	1237	1245	1247	1236	1238	1222	1236	1232
30°	1228	1238	1220	1226	1230	1228	1221	1220	1216	1215	1220
32.5°	1192	1200	1190	1196	1201	1198	1183	1194	1182	1185	1190
35°	1150	1159	1145	1152	1158	1156	1148	1150	1137	1136	1141
37.5°	1113	1119	1108	1116	1119	1116	1112	1113	1102	1101	1109
40°	1072	1079	1067	1077	1079	1080	1071	1073	1064	1063	1067
42.5°	1022	1030	1018	1034	1039	1033	1027	1028	1020	1020	1019
45°	965	965	952	967	970	965	959	963	950	953	959
47.5°	879	884	872	889	892	889	895	901	887	889	888
50°	846	844	837	844	845	825	809	819	809	810	818
52.5°	765	771	752	772	777	761	757	753	753	744	743
55°	704	693	700	702	707	707	709	699	702	701	697
57.5°	644	647	640	650	636	649	653	651	647	646	664
60°	589	592	578	582	593	601	586	594	612	608	603
62.5°	562	567	549	553	559	559	550	552	550	550	558
65°	509	502	500	502	512	510	520	528	520	529	526
67.5°	461	460	454	455	460	464	452	456	463	459	461
70°	399	392	388	395	389	394	386	399	382	390	404
72.5°	320	319	311	317	311	310	314	314	306	307	311
75°	227	235	224	234	233	232	236	231	228	225	219
77.5°	152	148	148	149	152	153	149	154	154	151	149
80°	79	76	76	80	81	87	85	91	90	90	90
82.5°	40	40	38	39	41	41	41	41	42	40	42
85°	33	34	33	33	32	33	33	33	32	33	33
87.5°	26	26	26	25	25	25	26	26	25	25	25
90°	18	18	18	18	17	18	18	18	18	18	18
92.5°	12	12	11	11	11	12	12	11	11	12	11
95°	7	7	7	7	7	7	7	7	7	7	7
97.5°	9	9	9	9	9	9	10	10	10	10	10
100°	17	17	17	17	17	17	17	18	17	17	17
102.5°	17	17	17	18	18	18	19	18	18	19	18
105°	11	11	11	12	12	13	13	13	13	13	13
107.5°	6	6	6	6	6	7	7	7	7	7	7
110°	4	4	3	4	4	4	4	4	4	4	4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	4	3	3	4	4	4	4	4	4	4	4
115°	4	4	4	4	4	4	4	4	4	4	4
117.5°	4	5	4	5	5	5	5	5	5	5	5
120°	7	7	7	8	8	8	9	9	9	9	9
122.5°	13	13	14	16	17	18	18	19	19	19	19
125°	22	22	23	27	28	30	30	30	31	31	31
127.5°	30	30	32	37	39	42	42	42	42	42	42
130°	34	34	37	40	42	45	47	47	47	48	47
132.5°	33	33	34	37	40	42	44	44	44	44	43
135°	26	26	28	29	31	33	36	37	37	37	36
137.5°	19	19	21	22	24	25	27	29	29	30	28
140°	11	12	13	14	16	17	18	20	19	20	19
142.5°	7	7	8	8	8	9	10	11	11	11	10
145°	2	2	3	3	3	4	4	4	4	4	4
147.5°	1	1	1	1	1	2	2	2	2	2	2
150°	1	1	1	1	1	1	1	1	1	1	1
152.5°	1	1	1	1	1	1	1	1	1	1	1
155°	0	0	0	0	0	0	1	1	1	1	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)