

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: P394702

Luminaire Tested: **ALB2A**

Test Date: 11/7/2019

Test Information

Test Method: LM-79-08
Report Number: P394702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1911-573-2)
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: ALB2A
Description: HALO OUTDOOR BARN LIGHT LITE 20W 4000K
Light Source: 4000K CCT, 70 CRI LEDs
Ballast/Driver: DRB

Summary

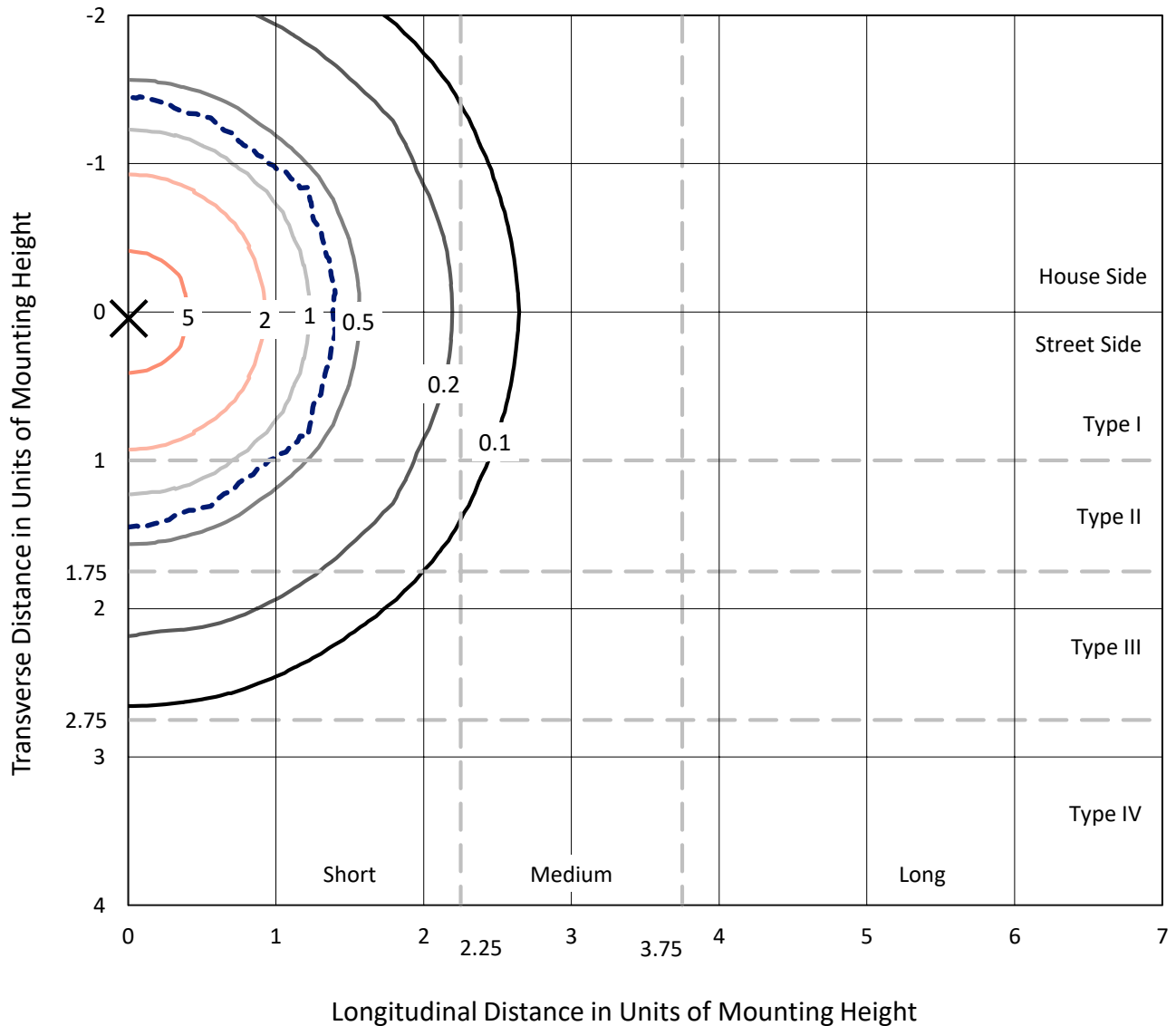
Lumens per Lamp: N/A
Luminaire Lumens: 2032 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.62' x H: 0.15')
IES Classification: Type V - Short - Cutoff
BUG Rating: B1 - U2 - G0

Input Watts (W): 19.5
Input Voltage (V): 119.9
Input Current (Ain): 0.166
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

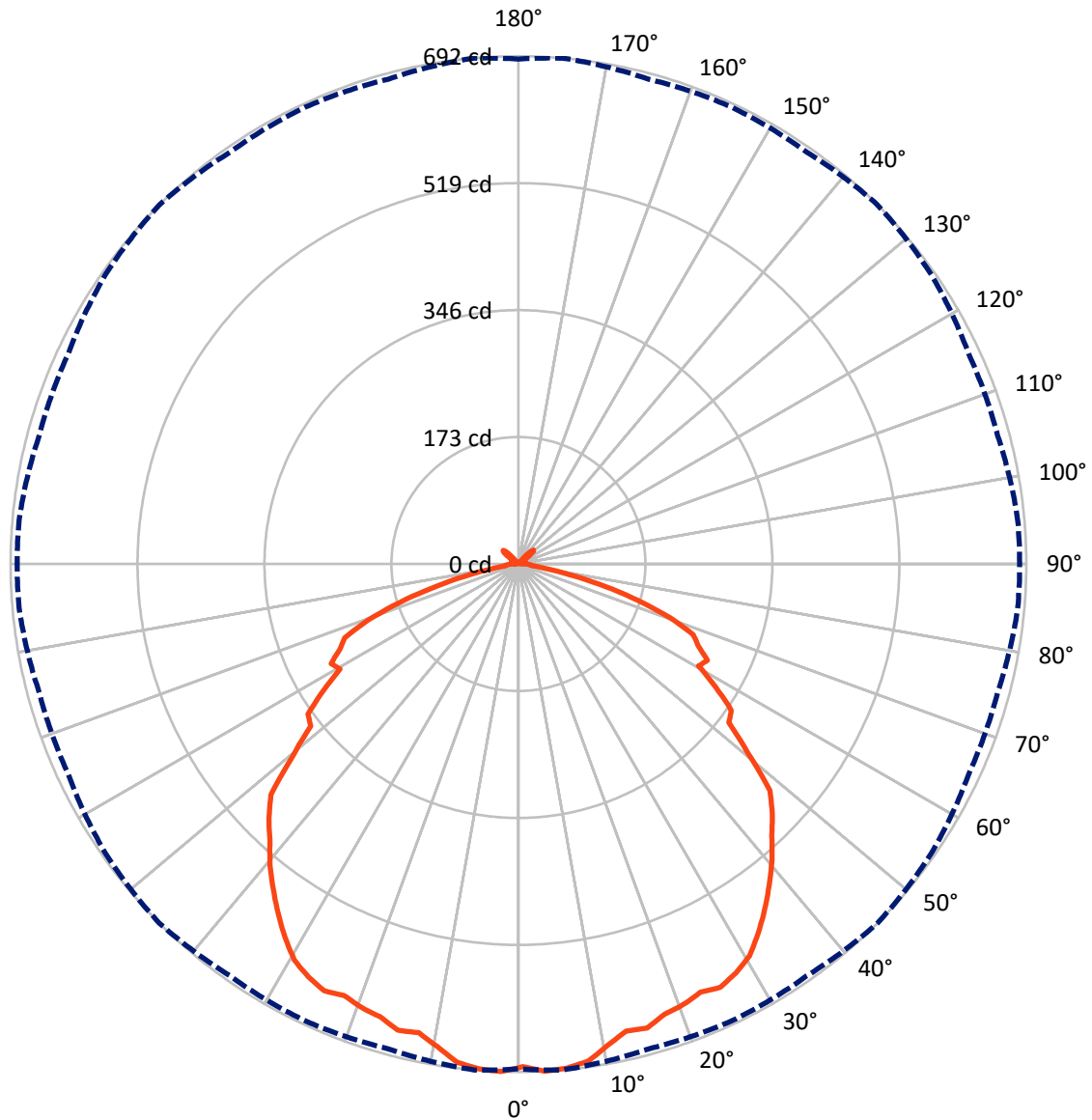
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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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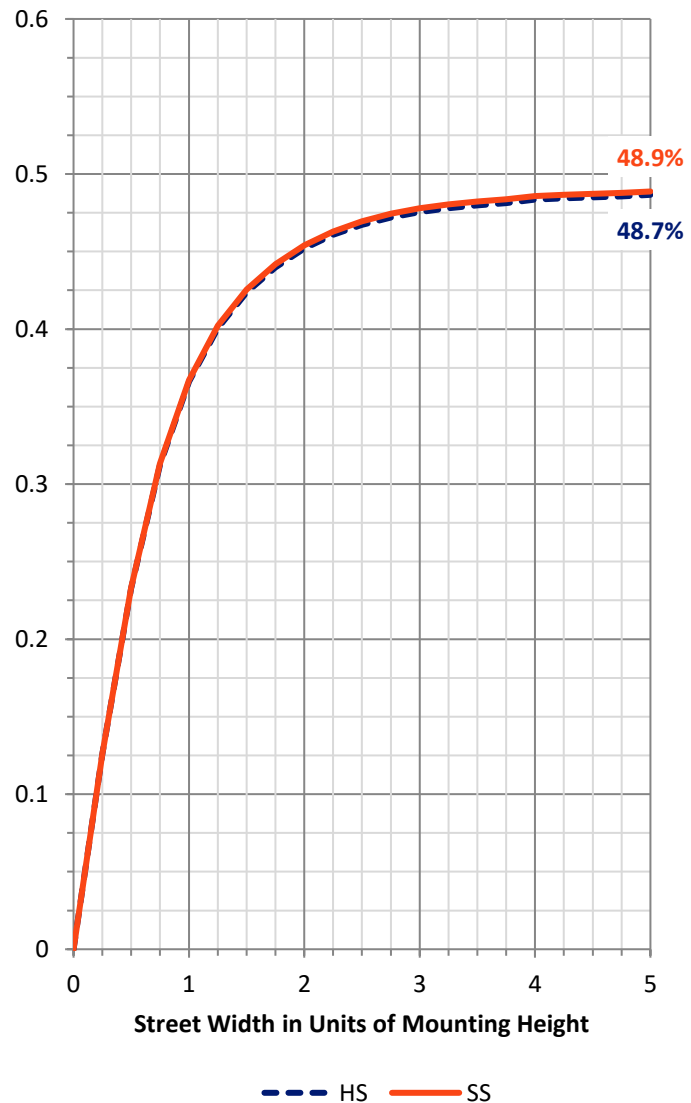
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.0	21.0	1016.0
	% Fixture	49.0	1.0	50.0
Street Side	Lumens	995.0	21.0	1016.0
	% Fixture	49.0	1.0	50.0
Total	Lumens	1990.0	42.0	2032.0
	% Fixture	97.9	2.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.2
10°-20°	182.9	9.0
20°-30°	292.1	14.4
30°-40°	361.4	17.8
40°-50°	372.4	18.3
50°-60°	306.0	15.1
60°-70°	263.8	13.0
70°-80°	127.0	6.2
80°-90°	19.9	1.0
90°-100°	6.1	0.3
100°-110°	6.5	0.3
110°-120°	2.1	0.1
120°-130°	11.1	0.5
130°-140°	14.9	0.7
140°-150°	1.3	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1990.0	97.9
0°-180°	2032.0	100.0



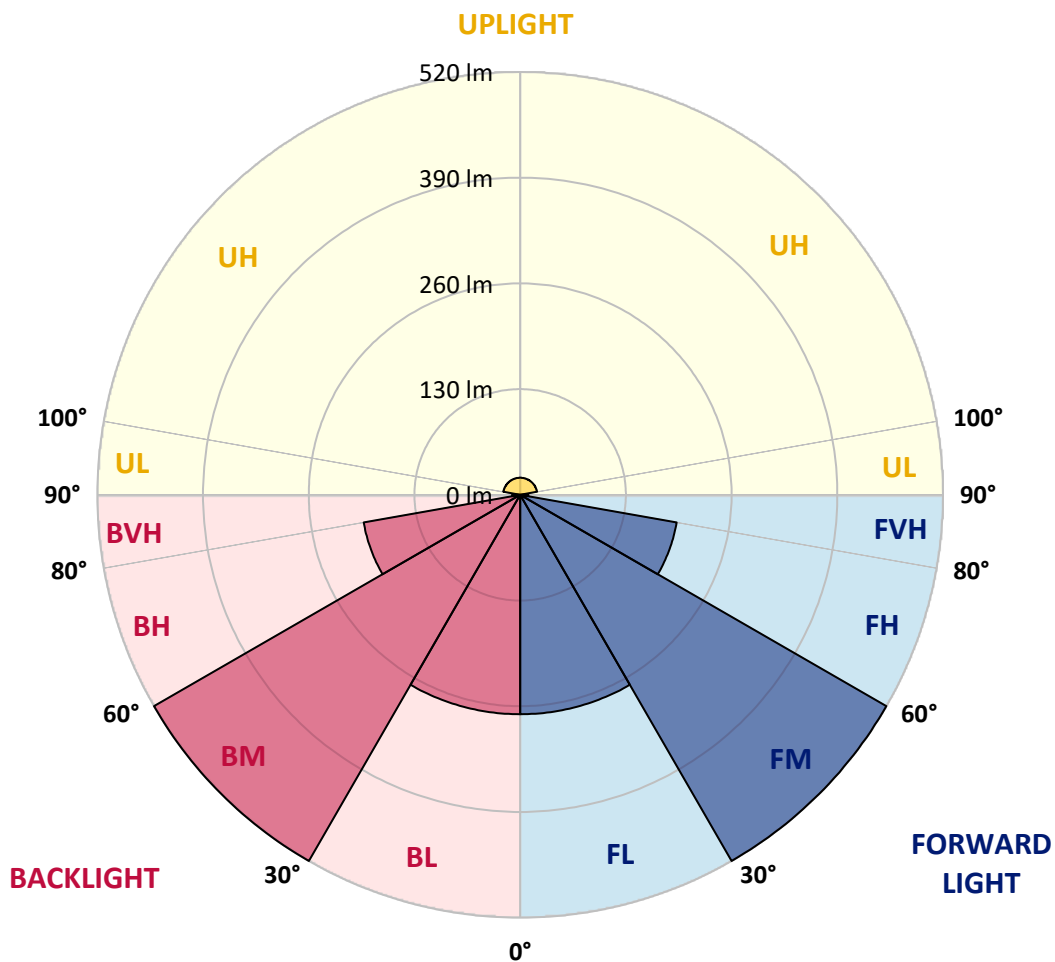
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.8	13.3			
FM	(30°-60°)	519.9	25.6			
FH	(60°-80°)	195.4	9.6			G0/660
FVH	(80°-90°)	9.9	0.5			G0/10
BL	(0°-30°)	269.8	13.3	B1/500		
BM	(30°-60°)	519.9	25.6	B1/1000		
BH	(60°-80°)	195.4	9.6	B1/500		G0/660
BVH	(80°-90°)	9.9	0.5			G0/10
UL	(90°-100°)	6.1	0.3		U1/10	
UH	(100°-180°)	21.0	1.0		U2/50	

BUG Rating: B1-U2-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	685	685	685	685	685	685	685	685	685	685	685
2.5°	688	692	684	687	685	692	687	677	676	683	683
5°	685	690	683	685	683	690	685	675	674	681	682
7.5°	680	684	678	681	677	683	682	671	668	675	678
10°	663	667	663	660	661	668	666	657	655	660	661
12.5°	653	653	647	652	646	654	652	639	638	647	648
15°	656	656	646	655	645	655	655	640	638	649	650
17.5°	648	645	641	648	634	645	653	630	632	641	636
20°	634	641	632	637	629	639	643	626	630	627	634
22.5°	632	634	636	636	633	638	643	627	630	635	637
25°	640	639	636	637	630	639	643	631	632	635	642
27.5°	629	631	630	629	626	632	637	624	623	629	632
30°	614	620	624	619	613	621	624	613	610	621	622
32.5°	599	600	601	600	595	604	609	595	596	601	606
35°	574	578	580	577	573	579	585	572	572	577	578
37.5°	554	555	561	558	551	556	564	551	551	555	558
40°	530	532	536	533	528	534	539	526	526	529	534
42.5°	506	506	512	508	503	509	516	503	503	507	506
45°	483	485	490	486	483	489	496	487	483	485	488
47.5°	461	461	463	459	457	465	471	464	459	465	462
50°	408	406	414	412	406	412	424	412	416	410	414
52.5°	369	359	368	368	356	359	371	361	355	361	362
55°	351	352	336	335	329	334	347	335	338	337	331
57.5°	315	317	317	322	311	318	331	330	325	325	318
60°	287	282	291	279	269	280	284	283	274	287	289
62.5°	279	289	296	284	275	276	279	276	276	281	281
65°	281	269	283	280	278	277	291	276	287	286	287
67.5°	261	257	256	254	250	256	259	251	252	252	254
70°	217	219	221	216	214	217	218	211	209	212	215
72.5°	171	171	174	168	167	167	167	166	160	167	166
75°	120	122	123	115	115	115	117	112	109	110	111
77.5°	75	76	76	76	73	75	75	70	70	72	70
80°	36	38	37	38	37	38	39	37	37	38	37
82.5°	19	19	19	19	19	19	19	19	19	19	19
85°	17	17	17	17	17	17	18	17	17	17	18
87.5°	13	14	14	13	14	13	14	13	14	14	14
90°	9	9	9	9	9	9	9	8	9	9	9
92.5°	6	6	6	5	5	5	5	5	5	5	5
95°	4	4	4	4	4	4	4	3	4	4	4
97.5°	4	4	4	4	4	4	4	4	4	5	4
100°	10	10	10	10	9	9	9	9	9	9	9
102.5°	10	10	10	10	10	10	10	10	10	10	9
105°	6	6	6	6	7	6	6	6	6	5	6
107.5°	3	3	3	3	3	3	3	2	2	2	2
110°	2	2	2	2	2	2	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	2	2	2	2	2	2	2	2	2	2	2
115°	2	2	2	2	2	2	2	2	2	2	2
117.5°	2	2	2	2	2	2	2	2	2	2	2
120°	3	3	3	3	3	3	3	3	3	3	2
122.5°	6	6	6	6	6	6	6	6	5	5	5
125°	13	13	14	13	14	14	13	12	11	10	10
127.5°	20	21	20	20	20	20	19	17	16	15	14
130°	26	27	27	26	26	25	24	22	21	19	18
132.5°	28	28	29	27	27	26	25	23	22	19	19
135°	24	24	24	22	22	21	21	18	17	16	15
137.5°	18	17	17	16	16	15	15	13	12	11	11
140°	9	9	9	8	8	7	7	7	5	6	7
142.5°	3	3	2	2	2	2	2	2	2	2	2
145°	1	1	1	1	1	1	1	1	1	1	1
147.5°	1	1	1	1	1	1	1	1	1	1	1
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	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)