

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: P232678

Luminaire Tested: **SMD6R12950WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-299-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R12950WH
Description: HALO 6" ROUND SURFACE MOUNT 1200LM
Light Source: (49) 5000K CCT, 90 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

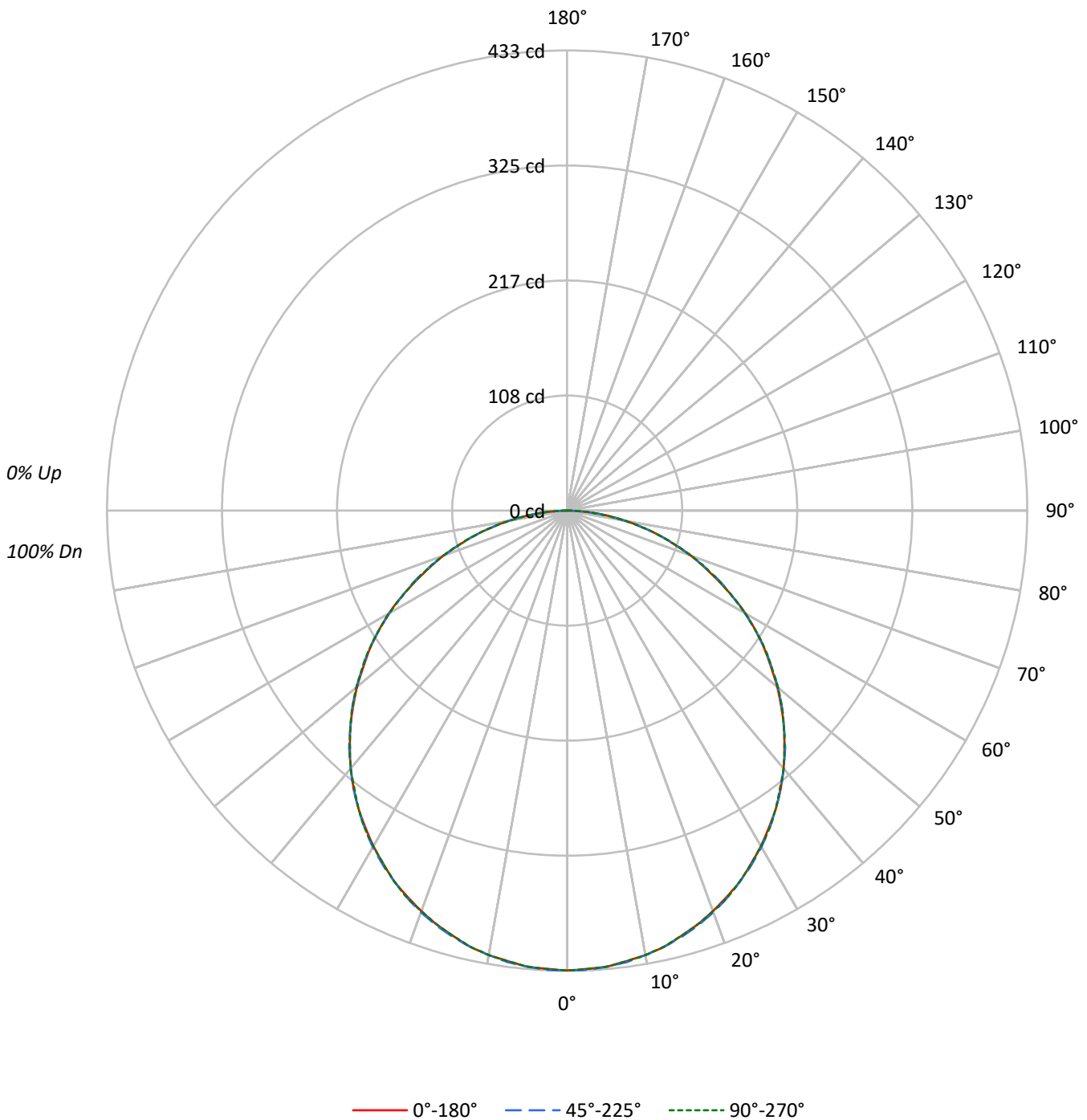
Lumens per Lamp: N/A
Luminaire Lumens: 1254.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Circular (Dia: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.2
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	46	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21861	21861	21861
5°	21843	21843	21843
10°	21783	21783	21783
15°	21675	21727	21675
20°	21570	21624	21570
25°	21462	21462	21462
30°	21276	21334	21276
35°	21112	21112	21112
40°	20900	20900	20900
45°	20613	20613	20613
50°	20278	20357	20357
55°	19951	20039	20039
60°	19603	19502	19502
65°	18817	19068	18948
70°	18302	18302	18302
75°	17451	17451	17451
80°	16264	16264	16264
85°	14144	14144	14144



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	3.3
10°-20°	117.1	9.3
20°-30°	177.4	14.2
30°-40°	214.2	17.1
40°-50°	222.8	17.8
50°-60°	202.6	16.2
60°-70°	156.8	12.5
70°-80°	94.4	7.5
80°-90°	27.7	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	335.5	26.8
0°-40°	549.7	43.8
0°-60°	975.1	77.8
0°-90°	1254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	433	433	433	433	433	
5°	431	431	431	431	431	41
15°	414	415	415	414	414	117
25°	385	385	385	385	385	177
35°	342	342	342	342	342	214
45°	288	288	288	288	288	222
55°	226	226	228	226	228	202
65°	157	158	160	158	158	156
75°	89	89	89	89	89	94
85°	24	24	24	24	24	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	432.7	432.7	432.7	432.7	432.7
2.5°	431.7	432.7	432.7	431.7	431.7
5°	430.7	430.7	430.7	430.7	430.7
7.5°	427.6	428.6	428.6	427.6	427.6
10°	424.6	424.6	424.6	424.6	424.6
12.5°	420.5	420.5	420.5	420.5	420.5
15°	414.4	415.4	415.4	414.4	414.4
17.5°	408.3	409.3	409.3	408.3	408.3
20°	401.2	402.2	402.2	401.2	401.2
22.5°	393.1	394.1	394.1	393.1	394.1
25°	385.0	385.0	385.0	385.0	385.0
27.5°	374.8	375.8	375.8	375.8	374.8
30°	364.7	365.7	365.7	364.7	364.7
32.5°	353.5	354.5	354.5	354.5	354.5
35°	342.3	342.3	342.3	342.3	342.3
37.5°	330.1	330.1	330.1	330.1	329.1
40°	316.9	316.9	316.9	316.9	316.9
42.5°	302.7	303.7	303.7	303.7	302.7
45°	288.5	288.5	288.5	288.5	288.5
47.5°	273.2	274.3	274.3	274.3	274.3
50°	258.0	259.0	259.0	259.0	259.0
52.5°	241.7	242.8	242.8	242.8	242.8
55°	226.5	226.5	227.5	226.5	227.5
57.5°	210.3	210.3	210.3	210.3	210.3
60°	194.0	193.0	193.0	193.0	193.0
62.5°	175.7	175.7	175.7	175.7	175.7
65°	157.4	158.5	159.5	158.5	158.5
67.5°	140.2	141.2	141.2	141.2	141.2
70°	123.9	122.9	123.9	123.9	123.9
72.5°	105.6	106.7	106.7	105.6	106.7
75°	89.4	89.4	89.4	89.4	89.4
77.5°	72.1	73.1	72.1	72.1	72.1
80°	55.9	55.9	55.9	55.9	55.9
82.5°	39.6	39.6	39.6	39.6	39.6
85°	24.4	24.4	24.4	24.4	24.4
87.5°	10.2	10.2	10.2	9.1	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)