

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: P253160

Luminaire Tested: **SMD6S12940WHE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-792-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S12940WHE
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM UNV Voltage
Light Source: (28) 4000K CCT, 92 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

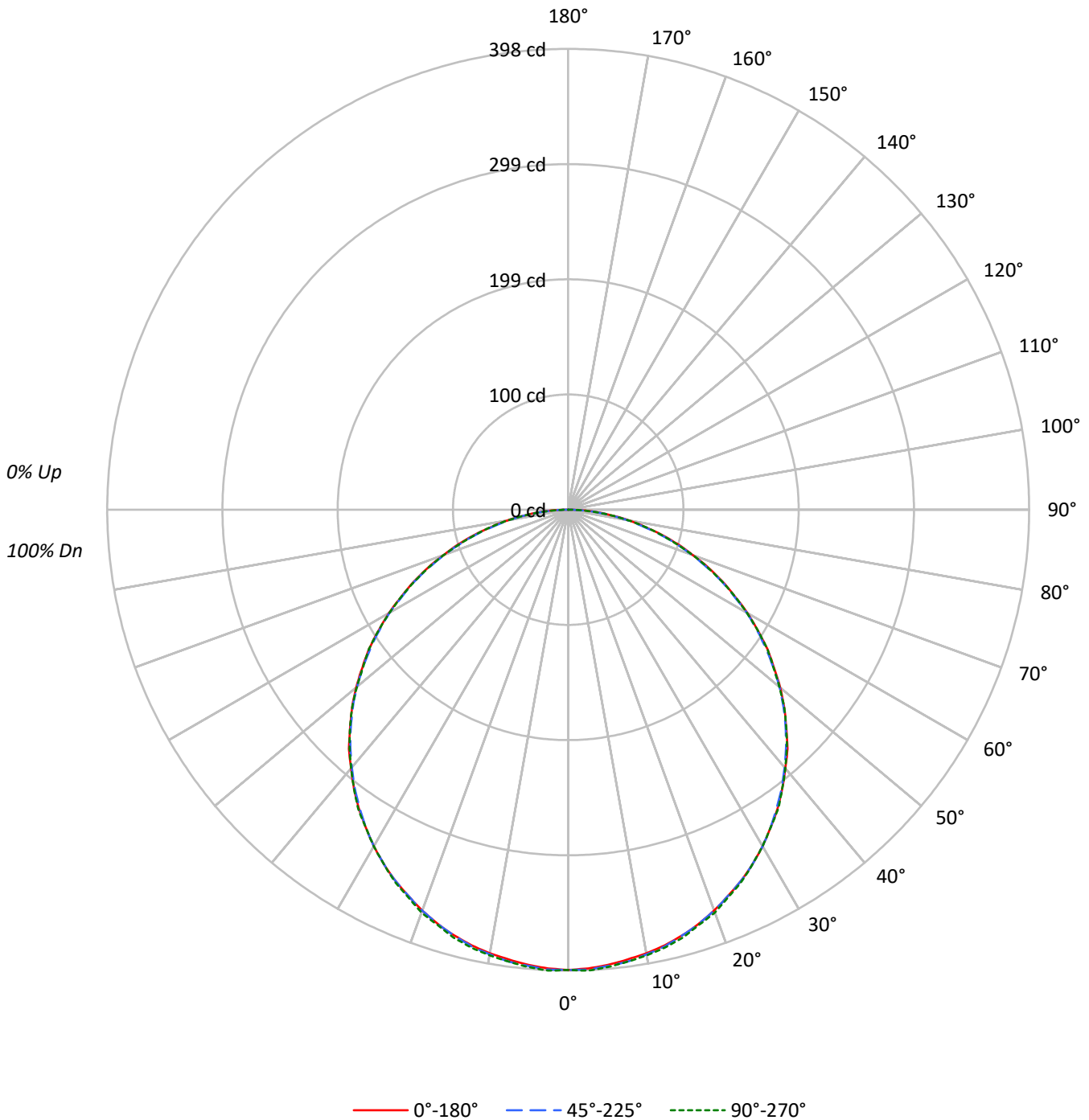
Lumens per Lamp: N/A
Luminaire Lumens: 1155.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.9
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	103	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	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	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	52	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°	15773	15773	15773
5°	15722	15757	15793
10°	15674	15714	15750
15°	15635	15635	15713
20°	15556	15556	15637
25°	15473	15473	15516
30°	15377	15377	15377
35°	15259	15210	15302
40°	15099	15053	15099
45°	14938	14888	14938
50°	14754	14698	14698
55°	14528	14396	14528
60°	14205	14134	14134
65°	13821	13727	13727
70°	13272	13156	13272
75°	12786	12510	12648
80°	12202	11791	11997
85°	11519	10654	10654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	3.3
10°-20°	107.6	9.3
20°-30°	163.1	14.1
30°-40°	196.9	17.1
40°-50°	205.2	17.8
50°-60°	186.5	16.2
60°-70°	144.5	12.5
70°-80°	86.9	7.5
80°-90°	26.7	2.3
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°	308.2	26.7
0°-40°	505.2	43.7
0°-60°	896.9	77.7
0°-90°	1155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	395	396	396	396	396	37
15°	381	382	381	382	382	107
25°	353	354	353	354	354	163
35°	315	315	314	315	316	197
45°	266	266	265	266	266	206
55°	210	209	208	209	210	187
65°	147	146	146	145	146	145
75°	83	82	82	82	82	88
85°	25	24	23	23	23	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	397.5	397.5	397.5	397.5	397.5
2.5°	396.5	397.5	397.5	397.5	398.4
5°	394.7	395.6	395.6	395.6	396.5
7.5°	391.8	393.7	393.7	393.7	393.7
10°	389.0	390.0	390.0	390.0	390.9
12.5°	385.3	386.2	386.2	386.2	387.2
15°	380.6	381.5	380.6	381.5	382.5
17.5°	375.0	375.9	375.0	375.9	375.9
20°	368.4	369.3	368.4	369.3	370.3
22.5°	360.9	361.8	360.9	361.8	361.8
25°	353.4	354.4	353.4	354.4	354.4
27.5°	345.0	345.0	345.0	345.0	345.0
30°	335.6	335.6	335.6	336.5	335.6
32.5°	325.3	325.3	325.3	326.2	325.3
35°	315.0	315.0	314.0	315.0	315.9
37.5°	303.7	303.7	302.8	303.7	303.7
40°	291.5	291.5	290.6	291.5	291.5
42.5°	280.3	279.4	278.4	279.4	279.4
45°	266.2	266.2	265.3	266.2	266.2
47.5°	253.1	253.1	252.2	252.2	253.1
50°	239.0	238.1	238.1	238.1	238.1
52.5°	224.0	224.0	223.1	223.1	223.1
55°	210.0	209.0	208.1	209.0	210.0
57.5°	194.0	193.1	193.1	193.1	194.0
60°	179.0	178.1	178.1	178.1	178.1
62.5°	162.2	162.2	161.2	161.2	162.2
65°	147.2	146.2	146.2	145.3	146.2
67.5°	131.2	130.3	129.4	129.4	130.3
70°	114.4	114.4	113.4	113.4	114.4
72.5°	99.4	97.5	97.5	97.5	97.5
75°	83.4	82.5	81.6	81.6	82.5
77.5°	67.5	66.6	65.6	66.6	67.5
80°	53.4	52.5	51.6	51.6	52.5
82.5°	38.4	37.5	37.5	36.6	37.5
85°	25.3	24.4	23.4	23.4	23.4
87.5°	12.2	11.2	10.3	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)