

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: P232673

Luminaire Tested: **SMD6S12930WH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1709-299-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6S12930WH
Description: HALO 6" SQUARE SURFACE MOUNT 1200LM
Light Source: (21) 3000K CCT, 90 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

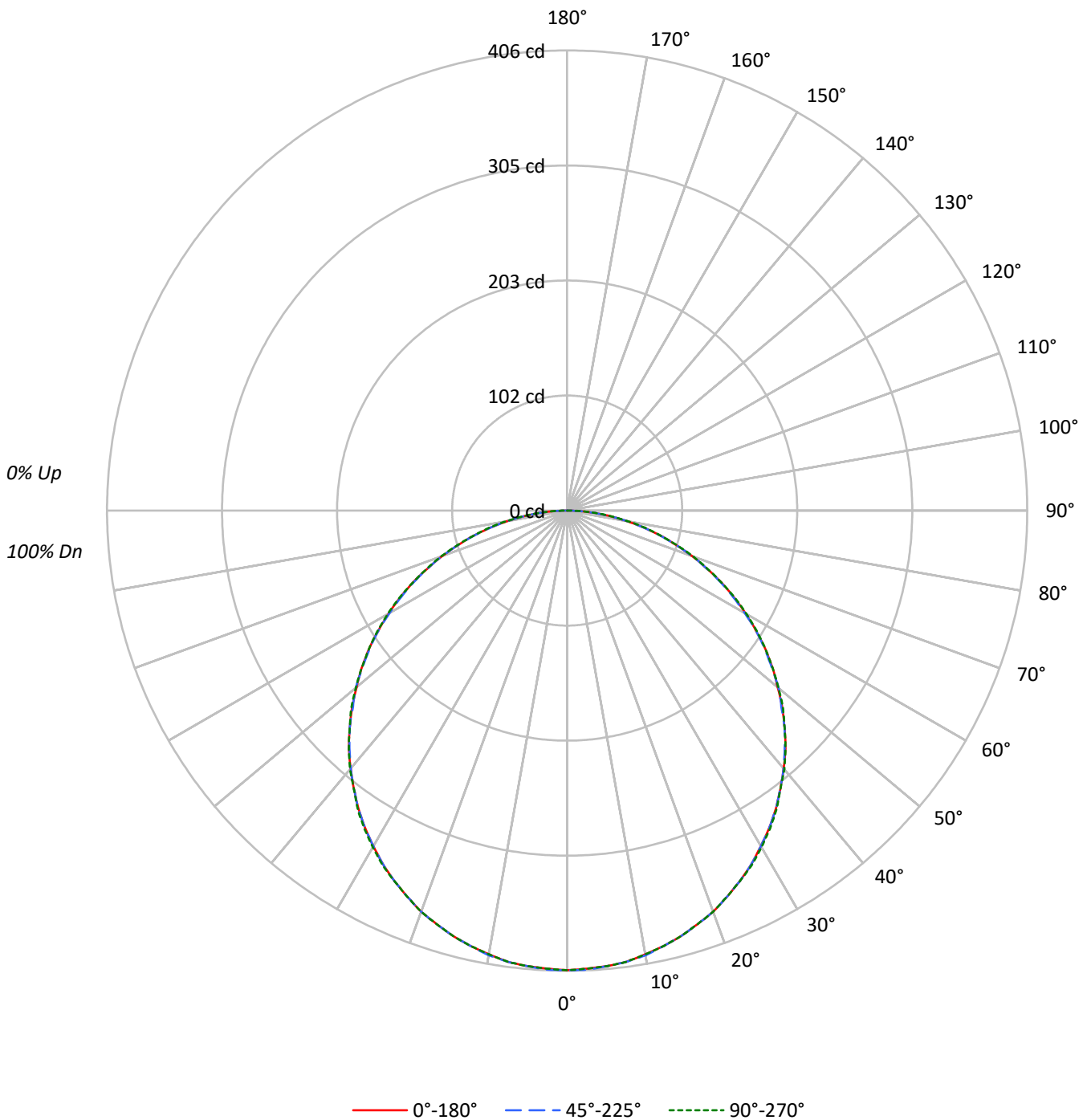
Lumens per Lamp: N/A
Luminaire Lumens: 1180.1 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.52' x L: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	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					100			
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16090	16090	16090
5°	16072	16072	16072
10°	16016	16056	16016
15°	15964	15964	15964
20°	15903	15903	15903
25°	15792	15792	15792
30°	15665	15665	15711
35°	15549	15549	15598
40°	15389	15389	15441
45°	15224	15224	15224
50°	14970	15032	15032
55°	14784	14715	14784
60°	14436	14356	14515
65°	14093	13999	14093
70°	13609	13609	13725
75°	13108	12955	13108
80°	12271	12271	12499
85°	11291	11291	11746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	3.2
10°-20°	109.7	9.3
20°-30°	166.2	14.1
30°-40°	200.8	17.0
40°-50°	209.1	17.7
50°-60°	190.4	16.1
60°-70°	148.0	12.5
70°-80°	89.7	7.6
80°-90°	27.8	2.4
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°	314.3	26.6
0°-40°	515.1	43.6
0°-60°	914.6	77.5
0°-90°	1180.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	406	406	406	406	406	
5°	404	404	404	404	404	38
15°	389	389	389	389	389	110
25°	361	361	361	361	361	166
35°	321	321	321	321	322	201
45°	271	270	271	271	271	209
55°	214	213	213	213	214	191
65°	150	149	149	149	150	148
75°	86	84	84	84	86	90
85°	25	24	25	25	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	405.5	405.5	405.5	405.5	405.5
2.5°	404.5	404.5	405.5	404.5	404.5
5°	403.5	403.5	403.5	403.5	403.5
7.5°	401.5	401.5	401.5	401.5	401.5
10°	397.5	397.5	398.5	397.5	397.5
12.5°	393.5	393.5	393.5	393.5	393.5
15°	388.6	388.6	388.6	388.6	388.6
17.5°	382.6	382.6	382.6	382.6	382.6
20°	376.6	375.7	376.6	376.6	376.6
22.5°	368.7	368.7	368.7	368.7	368.7
25°	360.7	360.7	360.7	360.7	360.7
27.5°	351.8	351.8	351.8	351.8	352.8
30°	341.9	341.9	341.9	342.9	342.9
32.5°	331.9	331.9	331.9	331.9	332.9
35°	321.0	321.0	321.0	321.0	322.0
37.5°	309.1	309.1	309.1	310.1	309.1
40°	297.1	297.1	297.1	297.1	298.1
42.5°	285.2	284.2	284.2	285.2	285.2
45°	271.3	270.3	271.3	271.3	271.3
47.5°	257.4	257.4	256.4	257.4	258.4
50°	242.5	242.5	243.5	243.5	243.5
52.5°	228.6	227.6	227.6	228.6	228.6
55°	213.7	212.7	212.7	212.7	213.7
57.5°	197.8	196.8	197.8	197.8	198.8
60°	181.9	180.9	180.9	181.9	182.9
62.5°	166.0	165.0	165.0	166.0	167.0
65°	150.1	149.1	149.1	149.1	150.1
67.5°	133.2	133.2	133.2	134.2	134.2
70°	117.3	116.3	117.3	117.3	118.3
72.5°	100.4	100.4	100.4	101.4	101.4
75°	85.5	84.5	84.5	84.5	85.5
77.5°	68.6	68.6	68.6	69.6	70.6
80°	53.7	53.7	53.7	54.7	54.7
82.5°	38.8	38.8	38.8	39.8	39.8
85°	24.8	23.9	24.8	24.8	25.8
87.5°	10.9	10.9	10.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)