

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: P284408

Luminaire Tested: **RSQ6089FS1EMWWB-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1811-050-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RSQ6089FS1EMWWB-3500K
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 3500K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 910.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

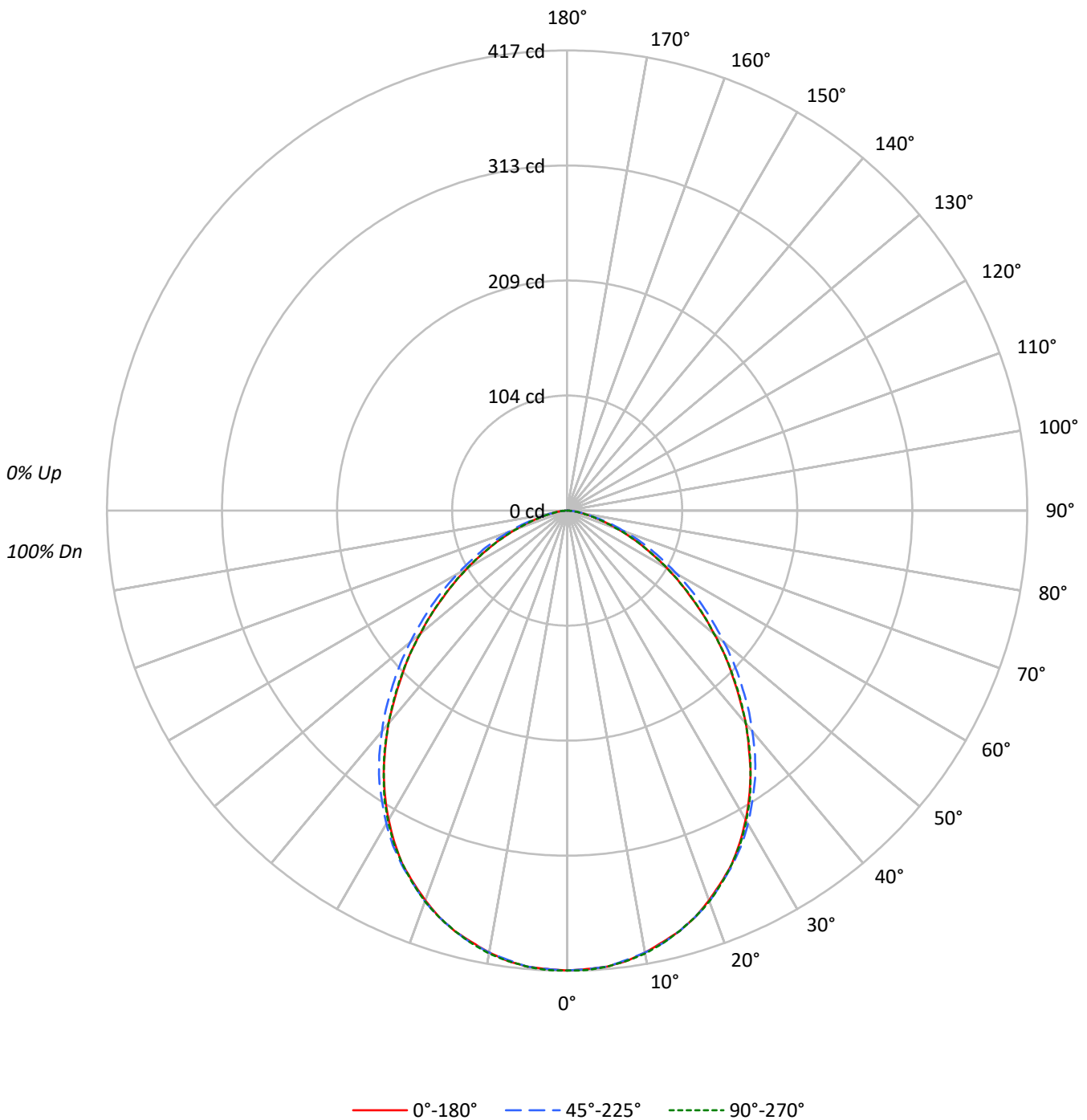
Input Watts (W): 9.44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	99	108	104	101	98	100	97	95	96	94	92	92	91	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77					75				
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67					65				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41					39				
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37					35				
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40378	40378	40378
5°	40337	40337	40337
10°	39997	39997	40096
15°	39545	39545	39545
20°	38742	38856	38856
25°	37764	37871	37764
30°	36199	36657	36310
35°	34273	35124	34273
40°	31856	33019	31856
45°	29045	30593	29182
50°	26239	27942	26239
55°	23173	25250	23358
60°	20247	22223	20247
65°	17146	19255	17146
70°	13936	15663	13624
75°	10368	11865	10368
80°	7420	7978	7420
85°	5669	5669	5669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	4.3
10°-20°	111.0	12.2
20°-30°	162.5	17.9
30°-40°	182.7	20.1
40°-50°	167.9	18.5
50°-60°	128.5	14.1
60°-70°	79.0	8.7
70°-80°	32.5	3.6
80°-90°	6.5	0.7
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°	312.9	34.4
0°-40°	495.6	54.5
0°-60°	792.1	87.0
0°-90°	910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	417	417	417	417	417	
5°	415	415	415	414	415	39
15°	394	394	394	394	394	111
25°	353	353	354	354	353	162
35°	290	293	297	293	290	181
45°	212	217	223	218	213	164
55°	137	143	150	143	138	123
65°	75	80	84	80	75	75
75°	28	30	32	30	28	31
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.8	416.8	416.8	416.8	416.8
2.5°	415.8	416.8	415.8	416.8	416.8
5°	414.8	414.8	414.8	413.7	414.8
7.5°	411.7	411.7	410.7	410.7	411.7
10°	406.6	406.6	406.6	406.6	407.6
12.5°	400.4	401.4	401.4	400.4	401.4
15°	394.3	394.3	394.3	394.3	394.3
17.5°	386.1	386.1	386.1	386.1	386.1
20°	375.8	375.8	376.9	376.9	376.9
22.5°	364.6	364.6	365.6	365.6	365.6
25°	353.3	353.3	354.3	354.3	353.3
27.5°	339.0	340.0	342.0	340.0	340.0
30°	323.6	325.7	327.7	325.7	324.6
32.5°	307.2	309.3	312.3	310.3	308.3
35°	289.8	292.9	297.0	292.9	289.8
37.5°	270.4	274.5	279.6	274.5	271.4
40°	251.9	256.0	261.1	256.0	251.9
42.5°	231.4	236.6	242.7	236.6	232.5
45°	212.0	217.1	223.3	218.1	213.0
47.5°	193.6	197.7	204.8	198.7	193.6
50°	174.1	179.2	185.4	180.2	174.1
52.5°	155.7	160.8	166.9	161.8	155.7
55°	137.2	143.4	149.5	143.4	138.3
57.5°	120.8	126.0	132.1	126.0	120.8
60°	104.5	109.6	114.7	109.6	104.5
62.5°	89.1	94.2	98.3	94.2	89.1
65°	74.8	79.9	84.0	79.9	74.8
67.5°	61.4	65.5	69.6	64.5	61.4
70°	49.2	52.2	55.3	52.2	48.1
72.5°	37.9	39.9	43.0	39.9	36.9
75°	27.7	29.7	31.7	29.7	27.7
77.5°	19.5	20.5	21.5	20.5	19.5
80°	13.3	14.3	14.3	14.3	13.3
82.5°	9.2	9.2	9.2	9.2	9.2
85°	5.1	5.1	5.1	5.1	5.1
87.5°	2.0	3.1	2.0	3.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)