

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: P284410

Luminaire Tested: **RSQ6089FS1EMWWB-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284410
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-5000K
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 5000K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

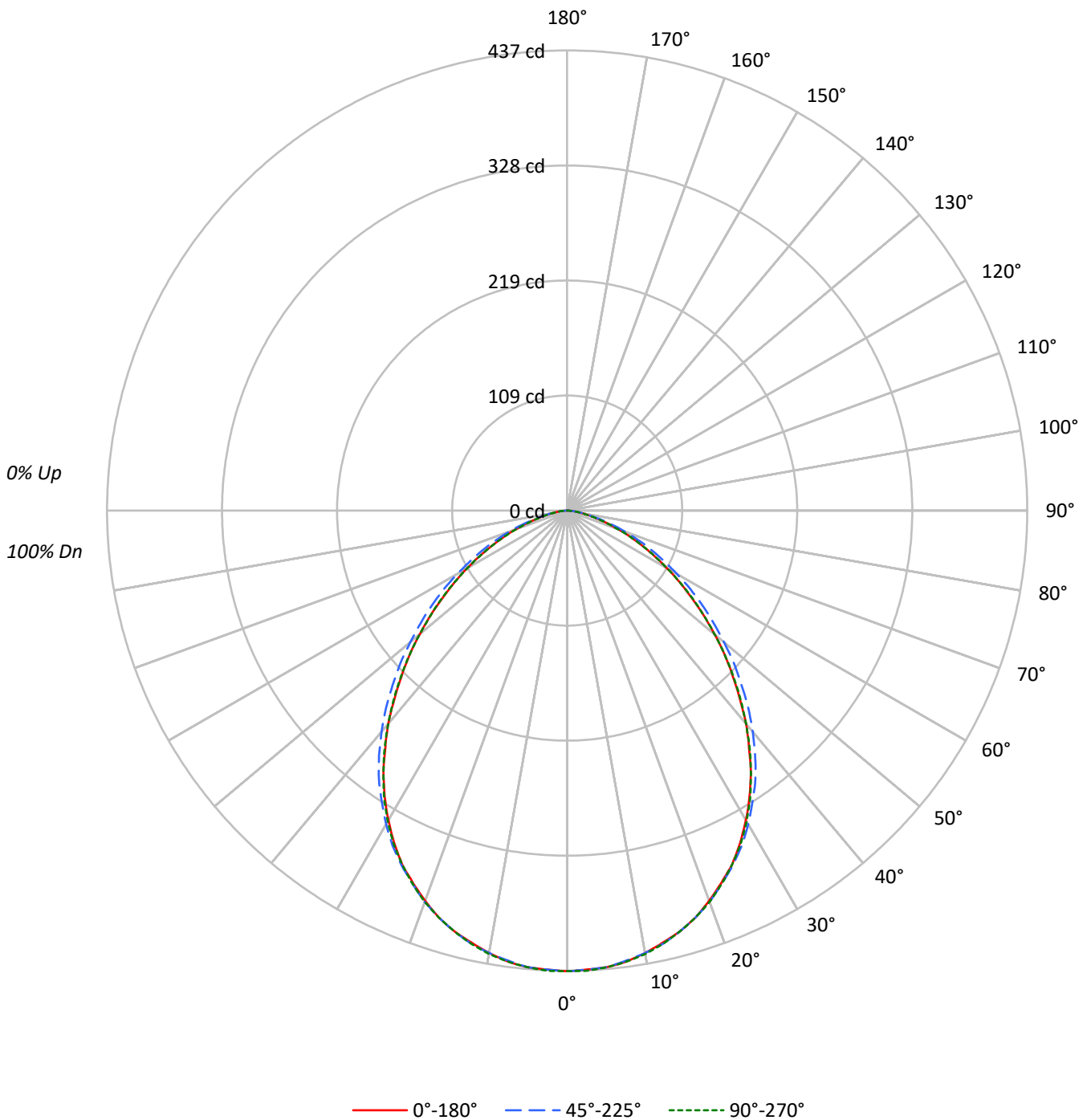
Lumens per Lamp: N/A
Luminaire Lumens: 955.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.42
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°	42373	42373	42373
5°	42331	42331	42331
10°	41974	41974	42073
15°	41501	41501	41501
20°	40660	40773	40773
25°	39635	39752	39635
30°	37988	38469	38111
35°	35976	36863	35976
40°	33437	34663	33437
45°	30483	32100	30620
50°	27535	29313	27535
55°	24321	26500	24507
60°	21235	23328	21235
65°	17994	20195	17994
70°	14615	16428	14304
75°	10855	12464	10855
80°	7810	8368	7810
85°	6002	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	4.3
10°-20°	116.5	12.2
20°-30°	170.6	17.9
30°-40°	191.8	20.1
40°-50°	176.2	18.5
50°-60°	134.9	14.1
60°-70°	82.9	8.7
70°-80°	34.1	3.6
80°-90°	6.8	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°	328.4	34.4
0°-40°	520.1	54.5
0°-60°	831.2	87.0
0°-90°	955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	435	435	435	434	435	41
15°	414	414	414	414	414	116
25°	371	371	372	372	371	170
35°	304	307	312	307	304	189
45°	222	228	234	229	224	172
55°	144	150	157	150	145	130
65°	78	84	88	84	78	78
75°	29	31	33	31	29	32
85°	5	5	5	5	5	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	437.4	437.4	437.4	437.4	437.4
2.5°	436.3	437.4	436.3	437.4	437.4
5°	435.3	435.3	435.3	434.2	435.3
7.5°	432.0	432.0	431.0	431.0	432.0
10°	426.7	426.7	426.7	426.7	427.7
12.5°	420.2	421.3	421.3	420.2	421.3
15°	413.8	413.8	413.8	413.8	413.8
17.5°	405.2	405.2	405.2	405.2	405.2
20°	394.4	394.4	395.5	395.5	395.5
22.5°	382.6	382.6	383.7	383.7	383.7
25°	370.8	370.8	371.9	371.9	370.8
27.5°	355.7	356.8	359.0	356.8	356.8
30°	339.6	341.8	343.9	341.8	340.7
32.5°	322.4	324.6	327.8	325.6	323.5
35°	304.2	307.4	311.7	307.4	304.2
37.5°	283.7	288.0	293.4	288.0	284.8
40°	264.4	268.7	274.1	268.7	264.4
42.5°	242.9	248.3	254.7	248.3	244.0
45°	222.5	227.8	234.3	228.9	223.5
47.5°	203.1	207.4	214.9	208.5	203.1
50°	182.7	188.1	194.5	189.2	182.7
52.5°	163.4	168.7	175.2	169.8	163.4
55°	144.0	150.5	156.9	150.5	145.1
57.5°	126.8	132.2	138.6	132.2	126.8
60°	109.6	115.0	120.4	115.0	109.6
62.5°	93.5	98.9	103.2	98.9	93.5
65°	78.5	83.8	88.1	83.8	78.5
67.5°	64.5	68.8	73.1	67.7	64.5
70°	51.6	54.8	58.0	54.8	50.5
72.5°	39.8	41.9	45.1	41.9	38.7
75°	29.0	31.2	33.3	31.2	29.0
77.5°	20.4	21.5	22.6	21.5	20.4
80°	14.0	15.0	15.0	15.0	14.0
82.5°	9.7	9.7	9.7	9.7	9.7
85°	5.4	5.4	5.4	5.4	5.4
87.5°	2.1	3.2	2.1	3.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)