

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: P256528

Luminaire Tested: **RSQ6089271EMWWB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1806-815-3)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RSQ6089271EMWWB  
Description: HALO RSQ 6 INCH LED FIXTURE WITH MATT WHITE BAFFLE, 800LM, 90CRI, 2700K  
Light Source: (15) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 835.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.14 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

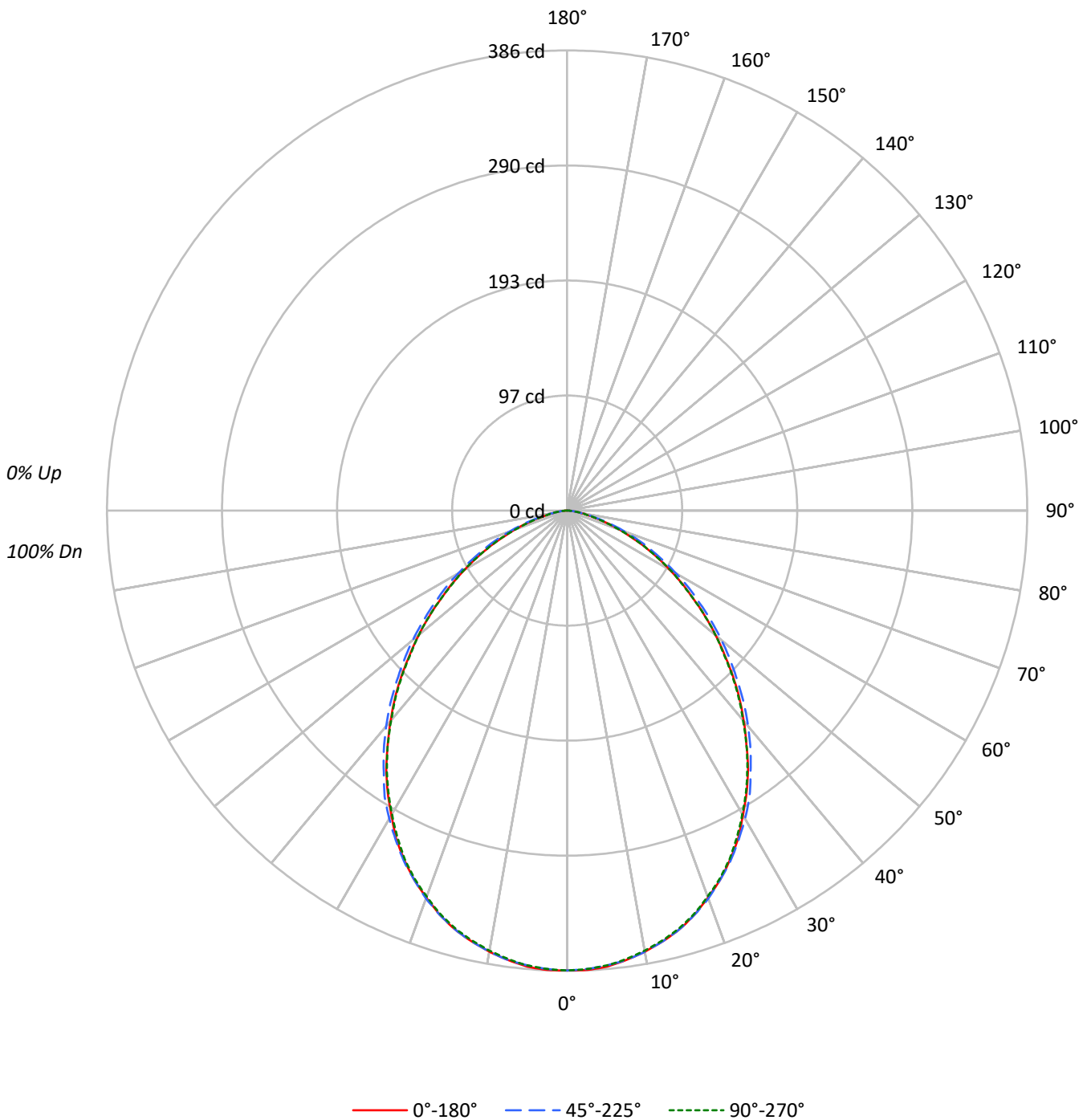
Input Watts (W): 9.43  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75				75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	67	64				64
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56				56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49				49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44				44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39				39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35				35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29				29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	37375	37375	37375
5°	37342	37245	37245
10°	36958	36958	36869
15°	36487	36487	36386
20°	35608	35701	35515
25°	34558	34664	34461
30°	32988	33391	32876
35°	31292	31718	31174
40°	29162	29858	29036
45°	26935	27688	26811
50°	24506	25470	24506
55°	21872	22970	21872
60°	19220	20460	19394
65°	16413	17696	16413
70°	13256	14559	13001
75°	9283	10667	9619
80°	6639	6639	6639
85°	4113	5113	4113



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	4.3
10°-20°	102.2	12.2
20°-30°	148.6	17.8
30°-40°	166.1	19.9
40°-50°	153.6	18.4
50°-60°	119.3	14.3
60°-70°	74.0	8.9
70°-80°	29.7	3.6
80°-90°	5.3	0.6
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°	287.1	34.4
0°-40°	453.2	54.3
0°-60°	726.0	87.0
0°-90°	835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	384	383	383	383	383	36
15°	364	363	364	363	363	102
25°	323	323	324	323	322	149
35°	265	266	268	266	264	165
45°	197	199	202	199	196	152
55°	130	133	136	133	130	116
65°	72	74	77	74	72	71
75°	25	27	28	27	26	28
85°	4	5	5	5	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	385.8	385.8	385.8	385.8	385.8
2.5°	385.8	384.9	384.9	384.9	384.9
5°	384.0	383.0	383.0	383.0	383.0
7.5°	380.3	379.4	380.3	379.4	379.4
10°	375.7	375.7	375.7	374.8	374.8
12.5°	370.2	369.3	370.2	369.3	369.3
15°	363.8	362.8	363.8	362.8	362.8
17.5°	355.5	355.5	355.5	354.6	354.6
20°	345.4	345.4	346.3	344.5	344.5
22.5°	335.3	335.3	335.3	334.4	334.4
25°	323.3	323.3	324.3	323.3	322.4
27.5°	310.5	310.5	311.4	310.5	308.6
30°	294.9	296.7	298.5	295.8	293.9
32.5°	280.2	282.0	284.8	282.0	279.2
35°	264.6	266.4	268.2	265.5	263.6
37.5°	247.1	249.9	252.6	249.9	247.1
40°	230.6	232.4	236.1	232.4	229.6
42.5°	214.0	215.9	219.5	215.9	213.1
45°	196.6	199.3	202.1	199.3	195.7
47.5°	179.1	182.8	185.6	181.9	178.2
50°	162.6	166.3	169.0	165.3	162.6
52.5°	146.1	149.7	152.5	148.8	146.1
55°	129.5	133.2	136.0	133.2	129.5
57.5°	114.8	117.6	121.3	117.6	113.9
60°	99.2	102.0	105.6	102.9	100.1
62.5°	85.4	88.2	90.9	88.2	85.4
65°	71.6	74.4	77.2	74.4	71.6
67.5°	57.9	60.6	64.3	61.5	58.8
70°	46.8	48.7	51.4	48.7	45.9
72.5°	35.8	37.7	39.5	36.7	34.9
75°	24.8	26.6	28.5	26.6	25.7
77.5°	17.5	18.4	19.3	18.4	17.5
80°	11.9	11.9	11.9	11.9	11.9
82.5°	7.3	7.3	7.3	7.3	7.3
85°	3.7	4.6	4.6	4.6	3.7
87.5°	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)