

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P256526

Luminaire Tested: **RSQ5089351EMWWB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P256526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1806-815-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RSQ5089351EMWWB  
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, 800LM, 90CRI, 3500K  
Light Source: (15) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 828.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')  
CIE Type: Direct

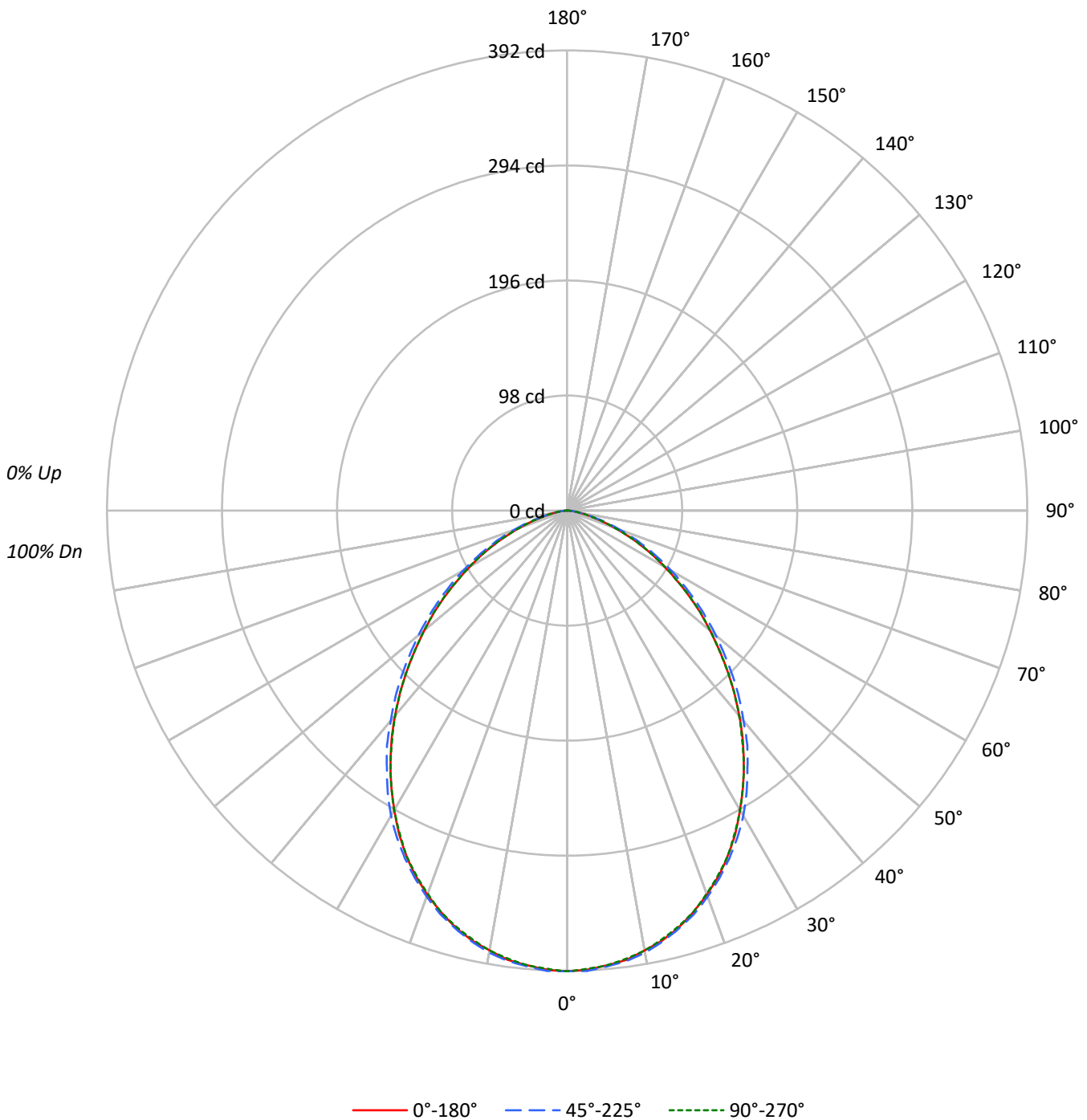
Input Watts (W): 9.37  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89					87				
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77					75				
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67					65				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59					57				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	53	48	72	61	53	47	59	52	47	57	51	47	56	50	46					44				
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41					40				
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31					30				

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

	0°	45°	90°
0°	57598	57598	57598
5°	57273	57405	57273
10°	56698	56981	56698
15°	55847	55984	55710
20°	54376	54657	54236
25°	52493	52931	52493
30°	49919	50868	49919
35°	46990	47975	46990
40°	43696	44768	43696
45°	40053	41402	40053
50°	36276	37737	36276
55°	32364	34027	32620
60°	28205	30083	28469
65°	23716	25660	24063
70°	18621	20595	18621
75°	13608	14685	13608
80°	9380	9380	9380
85°	6230	6230	6230



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	4.5
10°-20°	103.5	12.5
20°-30°	149.6	18.1
30°-40°	165.7	20.0
40°-50°	151.7	18.3
50°-60°	116.5	14.1
60°-70°	71.0	8.6
70°-80°	27.8	3.4
80°-90°	5.1	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°	290.0	35.0
0°-40°	455.7	55.0
0°-60°	724.0	87.4
0°-90°	828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	828.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	392	392	392	392	392	
5°	389	390	390	388	389	37
15°	368	368	368	367	367	103
25°	324	326	327	325	324	149
35°	262	266	268	265	262	164
45°	193	198	200	198	193	149
55°	126	131	133	131	128	113
65°	68	71	74	71	69	68
75°	24	25	26	25	24	27
85°	4	5	4	5	4	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	392.5	392.5	392.5	392.5	392.5
2.5°	391.6	392.5	392.5	390.7	390.7
5°	388.8	389.7	389.7	387.9	388.8
7.5°	386.1	387.0	387.0	385.1	385.1
10°	380.5	382.4	382.4	380.5	380.5
12.5°	375.0	375.9	375.9	374.0	374.0
15°	367.6	368.5	368.5	366.7	366.7
17.5°	358.3	359.3	360.2	358.3	358.3
20°	348.2	350.0	350.0	349.1	347.3
22.5°	337.1	338.0	338.9	338.0	336.2
25°	324.2	326.0	326.9	325.1	324.2
27.5°	310.3	312.2	314.0	312.2	309.4
30°	294.6	297.4	300.2	297.4	294.6
32.5°	278.9	282.6	284.5	281.7	278.9
35°	262.3	266.0	267.8	265.1	262.3
37.5°	245.7	249.4	252.1	248.4	244.7
40°	228.1	231.8	233.7	231.8	228.1
42.5°	210.6	214.3	217.0	214.3	210.6
45°	193.0	197.6	199.5	197.6	193.0
47.5°	175.5	180.1	181.9	180.1	175.5
50°	158.9	162.5	165.3	163.5	158.9
52.5°	143.2	145.9	148.7	146.8	143.2
55°	126.5	131.1	133.0	131.1	127.5
57.5°	110.8	114.5	117.3	114.5	110.8
60°	96.1	99.7	102.5	99.7	97.0
62.5°	82.2	85.0	87.7	85.9	82.2
65°	68.3	71.1	73.9	71.1	69.3
67.5°	55.4	58.2	61.0	58.2	55.4
70°	43.4	46.2	48.0	46.2	43.4
72.5°	33.2	35.1	36.9	35.1	33.2
75°	24.0	24.9	25.9	24.9	24.0
77.5°	16.6	17.5	17.5	17.5	16.6
80°	11.1	11.1	11.1	11.1	11.1
82.5°	7.4	7.4	7.4	7.4	7.4
85°	3.7	4.6	3.7	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)