

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: P256527

Luminaire Tested: **RSQ5089401EMWWB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256527
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: RSQ5089401EMWWB
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, 800LM, 90CRI, 4000K
Light Source: (15) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 840.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

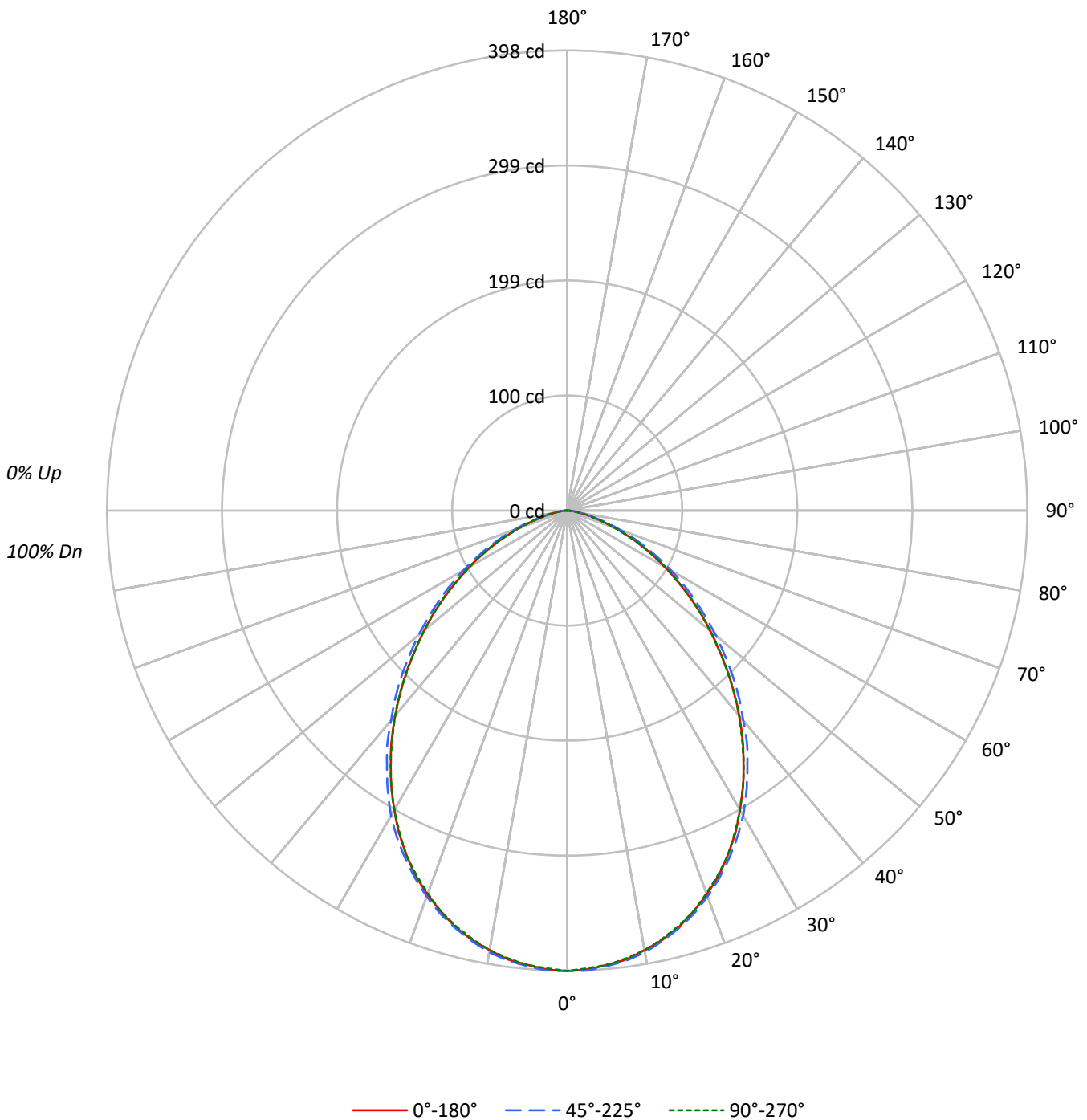
Input Watts (W): 9.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256527

CATALOG NUMBER: RSQ5089401EMWWB

Luminous Intensity Polar Plot





TEST NUMBER: P256527

CATALOG NUMBER: RSQ5089401EMWWB

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	31	42	36	31	41	35	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	58434	58434	58434
5°	58113	58245	58113
10°	57518	57801	57518
15°	56652	56789	56515
20°	55157	55454	55017
25°	53254	53708	53254
30°	50648	51597	50648
35°	47670	48673	47670
40°	44328	45401	44328
45°	40634	42004	40634
50°	36801	38285	36801
55°	32850	34513	33081
60°	28586	30523	28880
65°	24063	26042	24410
70°	18879	20895	18879
75°	13834	14855	13834
80°	9465	9465	9465
85°	6230	6230	6230



TEST NUMBER: P256527

CATALOG NUMBER: RSQ5089401EMWWB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	4.5
10°-20°	105.0	12.5
20°-30°	151.8	18.1
30°-40°	168.1	20.0
40°-50°	153.9	18.3
50°-60°	118.2	14.1
60°-70°	72.0	8.6
70°-80°	28.3	3.4
80°-90°	5.2	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°	294.2	35.0
0°-40°	462.3	55.0
0°-60°	734.5	87.4
0°-90°	840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	394	395	395	394	394	37
15°	373	374	374	372	372	105
25°	329	331	332	330	329	151
35°	266	270	272	269	266	166
45°	196	200	202	200	196	151
55°	128	133	135	133	129	115
65°	69	72	75	72	70	69
75°	24	25	26	25	24	27
85°	4	5	4	5	4	5
90°	0	0	0	0	0	



TEST NUMBER: P256527

CATALOG NUMBER: RSQ5089401EMWWB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.2	398.2	398.2	398.2	398.2
2.5°	397.3	398.2	398.2	396.3	396.3
5°	394.5	395.4	395.4	393.5	394.5
7.5°	391.6	392.6	392.6	390.7	390.7
10°	386.0	387.9	387.9	386.0	386.0
12.5°	380.4	381.3	381.3	379.5	379.5
15°	372.9	373.8	373.8	372.0	372.0
17.5°	363.5	364.5	365.4	363.5	363.5
20°	353.2	355.1	355.1	354.2	352.3
22.5°	342.0	342.9	343.9	342.9	341.0
25°	328.9	330.7	331.7	329.8	328.9
27.5°	314.8	316.7	318.6	316.7	313.9
30°	298.9	301.7	304.5	301.7	298.9
32.5°	283.0	286.7	288.6	285.8	283.0
35°	266.1	269.8	271.7	268.9	266.1
37.5°	249.2	253.0	255.8	252.0	248.3
40°	231.4	235.2	237.0	235.2	231.4
42.5°	213.6	217.4	220.2	217.4	213.6
45°	195.8	200.5	202.4	200.5	195.8
47.5°	178.0	182.7	184.6	182.7	178.0
50°	161.2	164.9	167.7	165.8	161.2
52.5°	145.2	148.0	150.8	149.0	145.2
55°	128.4	133.0	134.9	133.0	129.3
57.5°	112.4	116.2	119.0	116.2	112.4
60°	97.4	101.2	104.0	101.2	98.4
62.5°	83.4	86.2	89.0	87.1	83.4
65°	69.3	72.1	75.0	72.1	70.3
67.5°	56.2	59.0	61.8	59.0	56.2
70°	44.0	46.8	48.7	46.8	44.0
72.5°	33.7	35.6	37.5	35.6	33.7
75°	24.4	25.3	26.2	25.3	24.4
77.5°	16.9	17.8	17.8	17.8	16.9
80°	11.2	11.2	11.2	11.2	11.2
82.5°	7.5	7.5	7.5	7.5	7.5
85°	3.7	4.7	3.7	4.7	3.7
87.5°	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)