

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: P284404

Luminaire Tested: **RSQ5089FS1EMWWB-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1811-050-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RSQ5089FS1EMWWB-4000K
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 4000K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

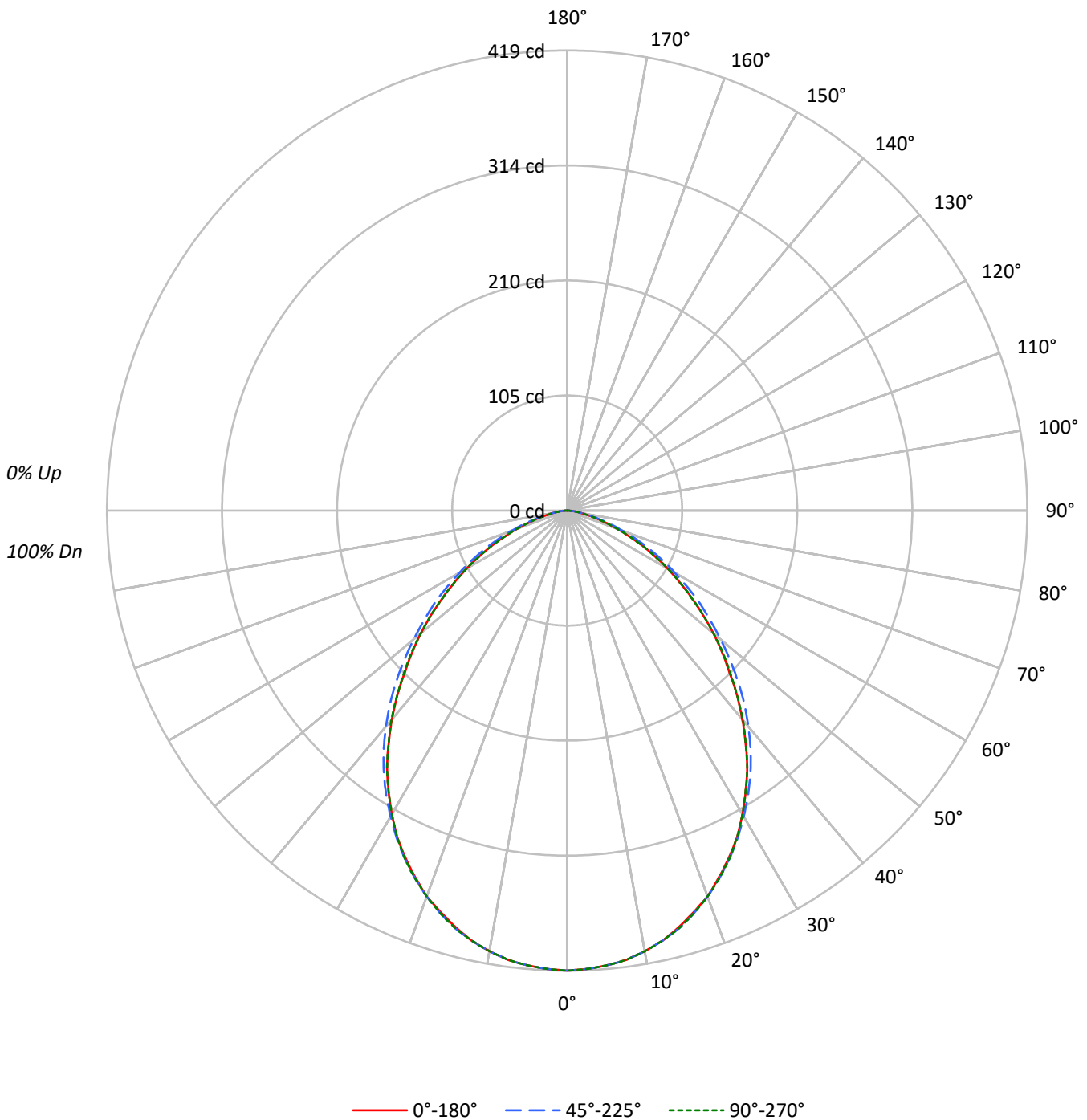
Lumens per Lamp: N/A
Luminaire Lumens: 900.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.24
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')
CIE Type: Direct

Input Watts (W): 9.3
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	92	91	89	87					87			
2	102	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75					75			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65					65			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	51	43	38	63	51	43	38	49	43	38	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	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	61472	61472	61472
5°	61235	61235	61235
10°	60707	60707	60707
15°	59660	59827	59827
20°	58390	58390	58390
25°	56460	56638	56638
30°	54122	54478	54122
35°	51217	52149	51217
40°	47546	49155	47738
45°	43457	45636	43685
50°	39678	41596	39678
55°	35358	37788	35358
60°	31052	33194	31052
65°	26181	28716	26181
70°	20681	22912	20681
75°	15422	17236	15422
80°	10648	10648	10648
85°	8755	8755	8755



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	4.4
10°-20°	110.7	12.3
20°-30°	160.6	17.8
30°-40°	179.7	20.0
40°-50°	165.6	18.4
50°-60°	128.0	14.2
60°-70°	78.5	8.7
70°-80°	31.5	3.5
80°-90°	6.1	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°	310.7	34.5
0°-40°	490.4	54.5
0°-60°	784.0	87.1
0°-90°	900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	419	419	419	419	419	
5°	416	416	416	415	416	39
15°	393	394	394	393	394	111
25°	349	350	350	349	350	160
35°	286	287	291	287	286	178
45°	209	215	220	215	210	162
55°	138	144	148	144	138	124
65°	75	80	83	78	75	75
75°	27	28	30	28	27	30
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°	418.9	418.9	418.9	418.9	418.9
2.5°	417.8	417.8	417.8	417.8	417.8
5°	415.7	415.7	415.7	414.7	415.7
7.5°	412.6	412.6	412.6	411.6	412.6
10°	407.4	407.4	407.4	406.3	407.4
12.5°	401.1	401.1	401.1	400.0	401.1
15°	392.7	393.8	393.8	392.7	393.8
17.5°	383.3	384.3	384.3	383.3	384.3
20°	373.9	373.9	373.9	372.8	373.9
22.5°	361.3	362.3	362.3	362.3	362.3
25°	348.7	349.8	349.8	348.7	349.8
27.5°	335.1	336.2	336.2	335.1	335.1
30°	319.4	321.5	321.5	320.5	319.4
32.5°	302.6	304.7	306.8	304.7	302.6
35°	285.9	286.9	291.1	286.9	285.9
37.5°	267.0	270.2	274.4	270.2	267.0
40°	248.2	252.4	256.6	251.3	249.2
42.5°	229.3	232.5	238.8	232.5	229.3
45°	209.4	214.7	219.9	214.7	210.5
47.5°	191.6	195.8	201.1	195.8	192.7
50°	173.8	178.0	182.2	178.0	173.8
52.5°	156.0	160.2	164.4	160.2	156.0
55°	138.2	143.5	147.7	143.5	138.2
57.5°	121.5	125.7	129.9	126.7	121.5
60°	105.8	110.0	113.1	110.0	105.8
62.5°	90.1	94.3	97.4	93.2	90.1
65°	75.4	79.6	82.7	78.5	75.4
67.5°	60.7	64.9	68.1	64.9	60.7
70°	48.2	51.3	53.4	51.3	48.2
72.5°	36.7	38.7	41.9	38.7	36.7
75°	27.2	28.3	30.4	28.3	27.2
77.5°	18.9	19.9	20.9	19.9	18.9
80°	12.6	13.6	12.6	13.6	12.6
82.5°	8.4	8.4	8.4	8.4	8.4
85°	5.2	5.2	5.2	5.2	5.2
87.5°	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)