

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: P284401

Luminaire Tested: **RSQ5089FS1EMWWB-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284401
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-2700K
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 2700K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

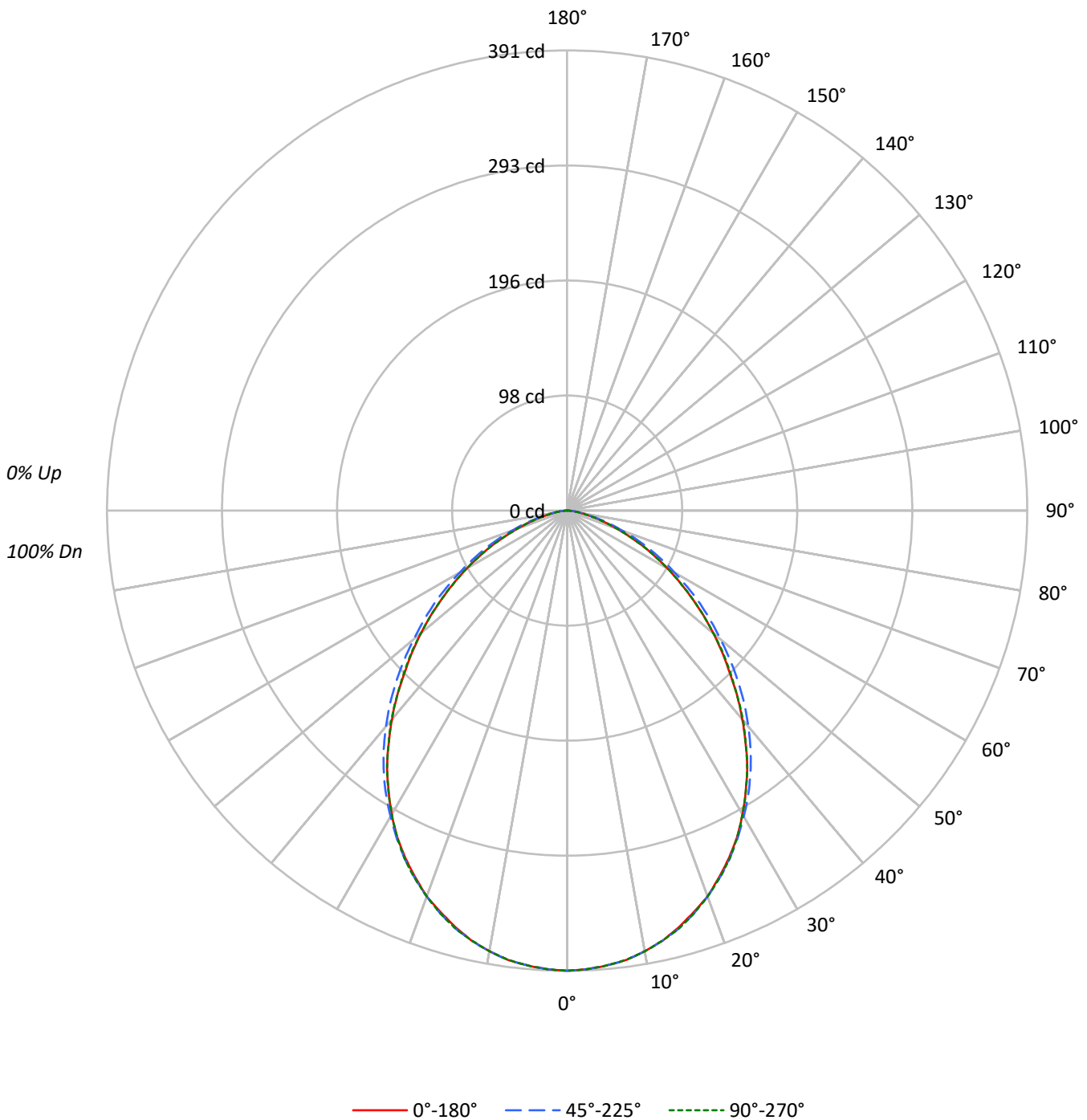
Lumens per Lamp: N/A
Luminaire Lumens: 840.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.24
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P284401
CATALOG NUMBER: RSQ5089FS1EMWWB-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P284401

CATALOG NUMBER: RSQ5089FS1EMWWB-2700K

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°	57378	57378	57378
5°	57155	57155	57155
10°	56654	56654	56654
15°	55680	55832	55832
20°	54486	54486	54486
25°	52704	52866	52866
30°	50512	50851	50512
35°	47796	48673	47796
40°	44366	45879	44558
45°	40572	42606	40780
50°	37030	38833	37030
55°	33004	35255	33004
60°	28968	30993	28968
65°	24445	26806	24445
70°	19308	21367	19308
75°	14401	16046	14401
80°	9887	9887	9887
85°	8250	8250	8250



TEST NUMBER: P284401

CATALOG NUMBER: RSQ5089FS1EMWWB-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	4.4
10°-20°	103.3	12.3
20°-30°	149.9	17.8
30°-40°	167.7	20.0
40°-50°	154.6	18.4
50°-60°	119.4	14.2
60°-70°	73.3	8.7
70°-80°	29.4	3.5
80°-90°	5.7	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°	290.0	34.5
0°-40°	457.7	54.5
0°-60°	731.7	87.1
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°	391	391	391	391	391	
5°	388	388	388	387	388	37
15°	366	368	368	366	368	103
25°	326	326	326	326	326	150
35°	267	268	272	268	267	166
45°	196	200	205	200	196	151
55°	129	134	138	134	129	116
65°	70	74	77	73	70	70
75°	25	26	28	26	25	28
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



TEST NUMBER: P284401

CATALOG NUMBER: RSQ5089FS1EMWWB-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	391.0	391.0	391.0	391.0	391.0
2.5°	390.0	390.0	390.0	390.0	390.0
5°	388.0	388.0	388.0	387.1	388.0
7.5°	385.1	385.1	385.1	384.1	385.1
10°	380.2	380.2	380.2	379.2	380.2
12.5°	374.3	374.3	374.3	373.4	374.3
15°	366.5	367.5	367.5	366.5	367.5
17.5°	357.7	358.7	358.7	357.7	358.7
20°	348.9	348.9	348.9	348.0	348.9
22.5°	337.2	338.2	338.2	338.2	338.2
25°	325.5	326.5	326.5	325.5	326.5
27.5°	312.8	313.7	313.7	312.8	312.8
30°	298.1	300.1	300.1	299.1	298.1
32.5°	282.5	284.4	286.4	284.4	282.5
35°	266.8	267.8	271.7	267.8	266.8
37.5°	249.2	252.2	256.1	252.2	249.2
40°	231.6	235.6	239.5	234.6	232.6
42.5°	214.1	217.0	222.8	217.0	214.1
45°	195.5	200.4	205.3	200.4	196.5
47.5°	178.9	182.8	187.7	182.8	179.8
50°	162.2	166.2	170.1	166.2	162.2
52.5°	145.6	149.5	153.5	149.5	145.6
55°	129.0	133.9	137.8	133.9	129.0
57.5°	113.4	117.3	121.2	118.3	113.4
60°	98.7	102.6	105.6	102.6	98.7
62.5°	84.1	88.0	90.9	87.0	84.1
65°	70.4	74.3	77.2	73.3	70.4
67.5°	56.7	60.6	63.5	60.6	56.7
70°	45.0	47.9	49.8	47.9	45.0
72.5°	34.2	36.2	39.1	36.2	34.2
75°	25.4	26.4	28.3	26.4	25.4
77.5°	17.6	18.6	19.5	18.6	17.6
80°	11.7	12.7	11.7	12.7	11.7
82.5°	7.8	7.8	7.8	7.8	7.8
85°	4.9	4.9	4.9	4.9	4.9
87.5°	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)