

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: P284405

Luminaire Tested: **RSQ5089FS1EMWWB-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284405
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-5000K
Description: HALO RSQ 5 INCH LED FIXTURE WITH MATT WHITE BAFFLE, SELECTABLE CCT, 90CRI, 5000K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

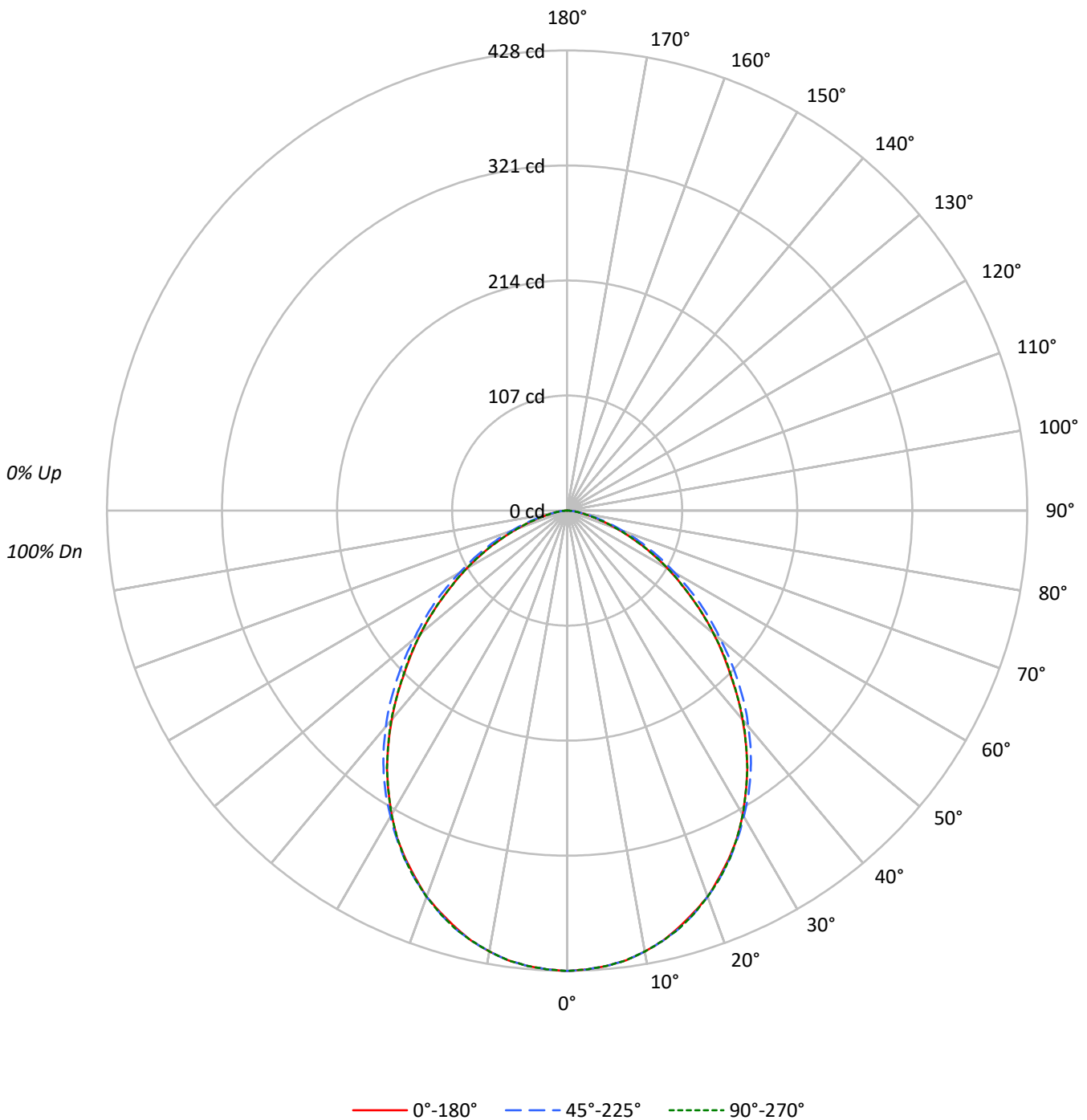
Lumens per Lamp: N/A
Luminaire Lumens: 920.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.24
Luminous Opening: Rectangular (W 0.27' x L: 0.27' x H: 0')
CIE Type: Direct

Input Watts (W): 9.25
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°	62837	62837	62837
5°	62605	62605	62605
10°	62048	62048	62048
15°	60982	61149	61149
20°	59686	59686	59686
25°	57723	57885	57885
30°	55325	55681	55325
35°	52346	53313	52346
40°	48600	50247	48810
45°	44432	46653	44661
50°	40568	42532	40568
55°	36151	38607	36151
60°	31727	33928	31727
65°	26772	29376	26772
70°	21110	23427	21110
75°	15762	17577	15762
80°	10817	10817	10817
85°	9092	9092	9092



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	4.4
10°-20°	113.1	12.3
20°-30°	164.2	17.8
30°-40°	183.7	20.0
40°-50°	169.3	18.4
50°-60°	130.8	14.2
60°-70°	80.3	8.7
70°-80°	32.1	3.5
80°-90°	6.2	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°	317.6	34.5
0°-40°	501.3	54.5
0°-60°	801.4	87.1
0°-90°	920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	425	425	425	424	425	40
15°	401	402	402	401	402	113
25°	356	358	358	356	358	164
35°	292	293	298	293	292	182
45°	214	220	225	220	215	166
55°	141	147	151	147	141	127
65°	77	81	85	80	77	77
75°	28	29	31	29	28	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°	428.2	428.2	428.2	428.2	428.2
2.5°	427.1	427.1	427.1	427.1	427.1
5°	425.0	425.0	425.0	423.9	425.0
7.5°	421.8	421.8	421.8	420.7	421.8
10°	416.4	416.4	416.4	415.4	416.4
12.5°	410.0	410.0	410.0	408.9	410.0
15°	401.4	402.5	402.5	401.4	402.5
17.5°	391.8	392.9	392.9	391.8	392.9
20°	382.2	382.2	382.2	381.1	382.2
22.5°	369.3	370.4	370.4	370.4	370.4
25°	356.5	357.5	357.5	356.5	357.5
27.5°	342.6	343.6	343.6	342.6	342.6
30°	326.5	328.6	328.6	327.6	326.5
32.5°	309.4	311.5	313.7	311.5	309.4
35°	292.2	293.3	297.6	293.3	292.2
37.5°	273.0	276.2	280.5	276.2	273.0
40°	253.7	258.0	262.3	256.9	254.8
42.5°	234.4	237.6	244.1	237.6	234.4
45°	214.1	219.5	224.8	219.5	215.2
47.5°	195.9	200.2	205.5	200.2	197.0
50°	177.7	182.0	186.3	182.0	177.7
52.5°	159.5	163.8	168.1	163.8	159.5
55°	141.3	146.7	150.9	146.7	141.3
57.5°	124.2	128.5	132.7	129.5	124.2
60°	108.1	112.4	115.6	112.4	108.1
62.5°	92.1	96.3	99.6	95.3	92.1
65°	77.1	81.4	84.6	80.3	77.1
67.5°	62.1	66.4	69.6	66.4	62.1
70°	49.2	52.5	54.6	52.5	49.2
72.5°	37.5	39.6	42.8	39.6	37.5
75°	27.8	28.9	31.0	28.9	27.8
77.5°	19.3	20.3	21.4	20.3	19.3
80°	12.8	13.9	12.8	13.9	12.8
82.5°	8.6	8.6	8.6	8.6	8.6
85°	5.4	5.4	5.4	5.4	5.4
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)