

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: P239169

Luminaire Tested: **RLD4069301EWH-BB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P239169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1803-681-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RLD4069301EWH-BB
Description: 4" RL Deep Baffle, 91 CRI, 3000K, Matte Black
Light Source: (12) 3000K CCT, 91 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

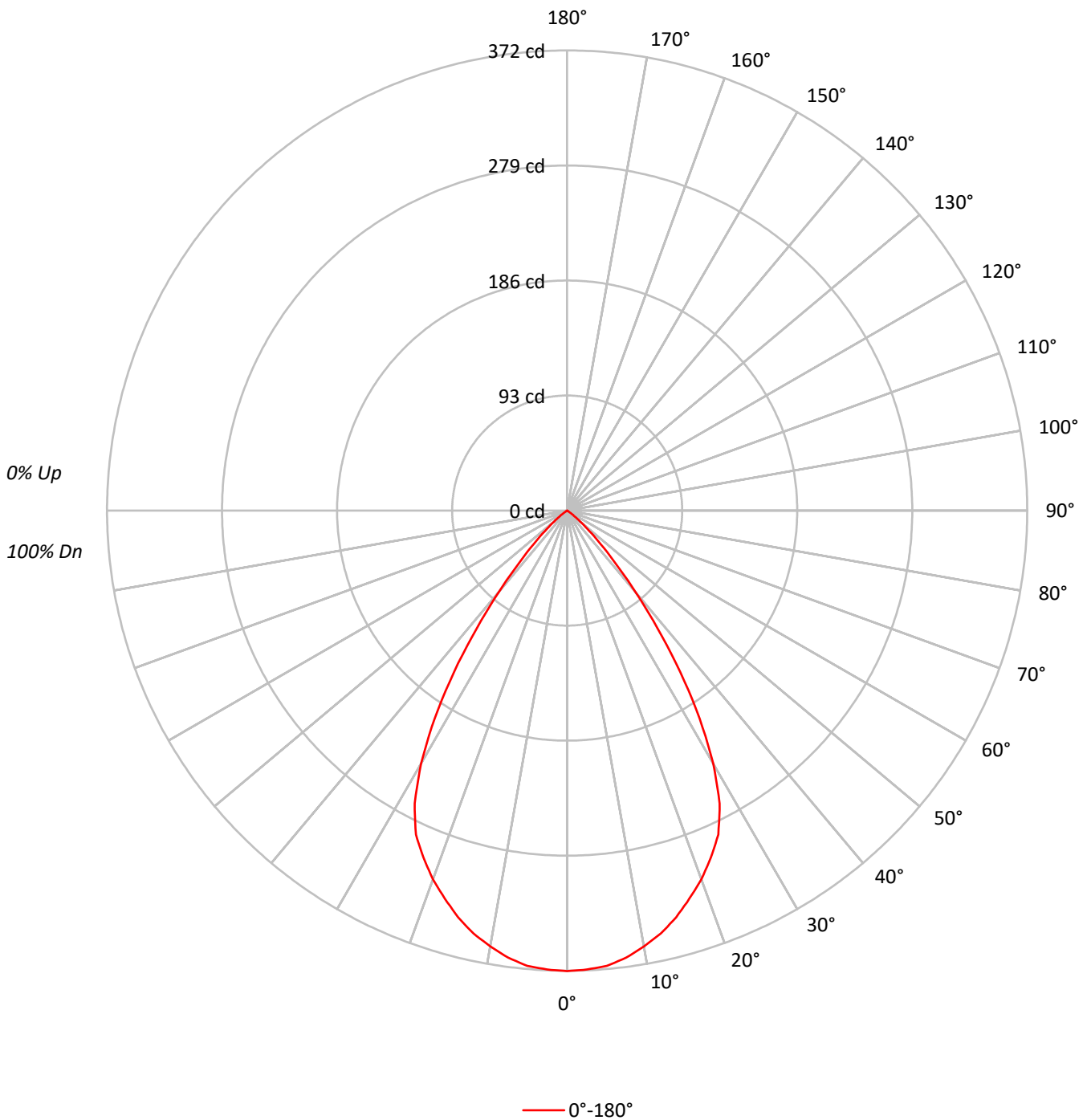
Lumens per Lamp: N/A
Luminaire Lumens: 396.0 lumens
Efficiency: N/A
Efficacy: 46.6 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 0.97
Luminous Opening: Circular (Dia: 0.27' x H: 0')
CIE Type: Direct

Input Watts (W): 8.5
Input Voltage (V): NR
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	111	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	83		86	84	81	80
4	96	89	83	79	95	87	82	78	85	81	77		83	79	76		81	78	75	74
5	91	83	77	72	90	82	76	72	80	75	71		78	74	70		77	73	70	68
6	86	77	71	66	85	76	70	66	75	70	66		73	69	65		72	68	65	63
7	82	72	66	62	80	71	66	61	70	65	61		69	64	61		68	64	60	59
8	78	68	61	57	76	67	61	57	66	61	57		65	60	57		64	60	56	55
9	74	64	57	53	72	63	57	53	62	57	53		61	56	53		60	56	53	51
10	70	60	54	50	69	59	54	50	59	53	50		58	53	49		57	53	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69562
5°	69284
10°	67884
15°	65845
20°	63070
25°	59600
30°	50917
35°	36404
40°	21000
45°	10226
50°	3924
55°	945
60°	374
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	8.8
10°-20°	95.6	24.1
20°-30°	130.4	32.9
30°-40°	98.6	24.9
40°-50°	32.3	8.2
50°-60°	3.9	1.0
60°-70°	0.4	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	260.9	65.9
0°-40°	359.4	90.8
0°-60°	395.7	99.9
0°-90°	396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	396.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	372	
5°	369	35
15°	340	96
25°	289	130
35°	160	99
45°	39	32
55°	3	4
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	372.3
2.5°	371.3
5°	369.4
7.5°	364.6
10°	357.8
12.5°	350.1
15°	340.4
17.5°	328.8
20°	317.2
22.5°	303.6
25°	289.1
27.5°	266.9
30°	236.0
32.5°	199.2
35°	159.6
37.5°	119.9
40°	86.1
42.5°	58.0
45°	38.7
47.5°	24.2
50°	13.5
52.5°	6.8
55°	2.9
57.5°	1.0
60°	1.0
62.5°	1.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)