

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: P303275

Luminaire Tested: **RL4099BLE40AWH-3000K**

Test Date: 04/24/19

**Test Information**

Test Method: LM-41-14  
Report Number: P303275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( G1-1902-161-2)  
Test Lab: INNOVATION CENTER(G1)  
Test Date: 04/24/19  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RL4099BLE40AWH-3000K  
Description: 4" RD LENS, 900LM, 90 BLE, 120V, MW, 3000K  
Light Source: (30) 90 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

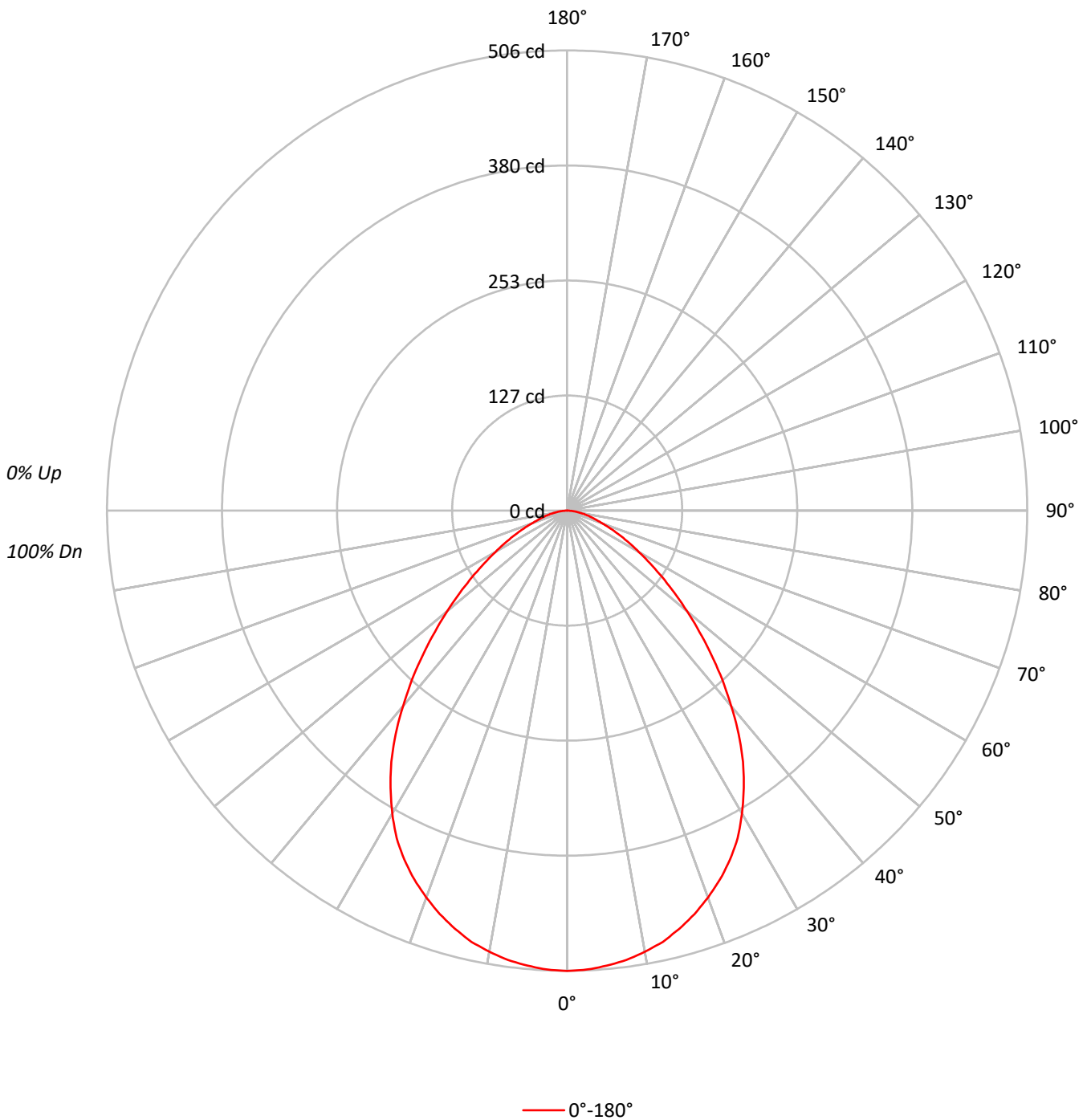
Lumens per Lamp: N/A  
Luminaire Lumens: 973.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.19  
Luminous Opening: Circular (Dia: 0.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.9  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95		97	95	93		93	91	90	88
2	102	96	90	85	100	94	88	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	63	74	68	63		71	66	62		69	65	61	59
5	81	70	62	56	80	69	62	56	67	61	55		65	59	55		63	58	54	52
6	76	64	56	50	74	63	55	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	94580
5°	94210
10°	93459
15°	92094
20°	90032
25°	87329
30°	82998
35°	76913
40°	68489
45°	59295
50°	49996
55°	41468
60°	34118
65°	27897
70°	22289
75°	18986
80°	16785
85°	14578



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.7	4.9
10°-20°	134.1	13.8
20°-30°	194.4	20.0
30°-40°	209.4	21.5
40°-50°	173.2	17.8
50°-60°	114.9	11.8
60°-70°	63.5	6.5
70°-80°	28.4	2.9
80°-90°	7.4	0.8
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°	376.1	38.7
0°-40°	585.5	60.2
0°-60°	873.6	89.8
0°-90°	973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	506	
5°	502	48
15°	476	134
25°	424	194
35°	337	209
45°	224	173
55°	127	115
65°	63	64
75°	26	28
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	506.2
2.5°	505.2
5°	502.3
7.5°	498.5
10°	492.6
12.5°	485.8
15°	476.1
17.5°	465.3
20°	452.8
22.5°	439.2
25°	423.6
27.5°	406.2
30°	384.7
32.5°	361.5
35°	337.2
37.5°	309.9
40°	280.8
42.5°	252.6
45°	224.4
47.5°	197.2
50°	172.0
52.5°	148.6
55°	127.3
57.5°	107.9
60°	91.3
62.5°	76.7
65°	63.1
67.5°	51.5
70°	40.8
72.5°	33.0
75°	26.3
77.5°	20.4
80°	15.6
82.5°	10.7
85°	6.8
87.5°	2.0
90°	0.0

(END OF REPORT)