

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: P303276

Luminaire Tested: **RL4099BLE40AWH-2700K**

Test Date: 04/24/19

Test Information

Test Method: LM-41-14
Report Number: P303276
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-2700K
Description: 4" RD LENS, 900LM, 90 BLE, 120V, MW, 2700K
Light Source: (30) 90 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 955.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

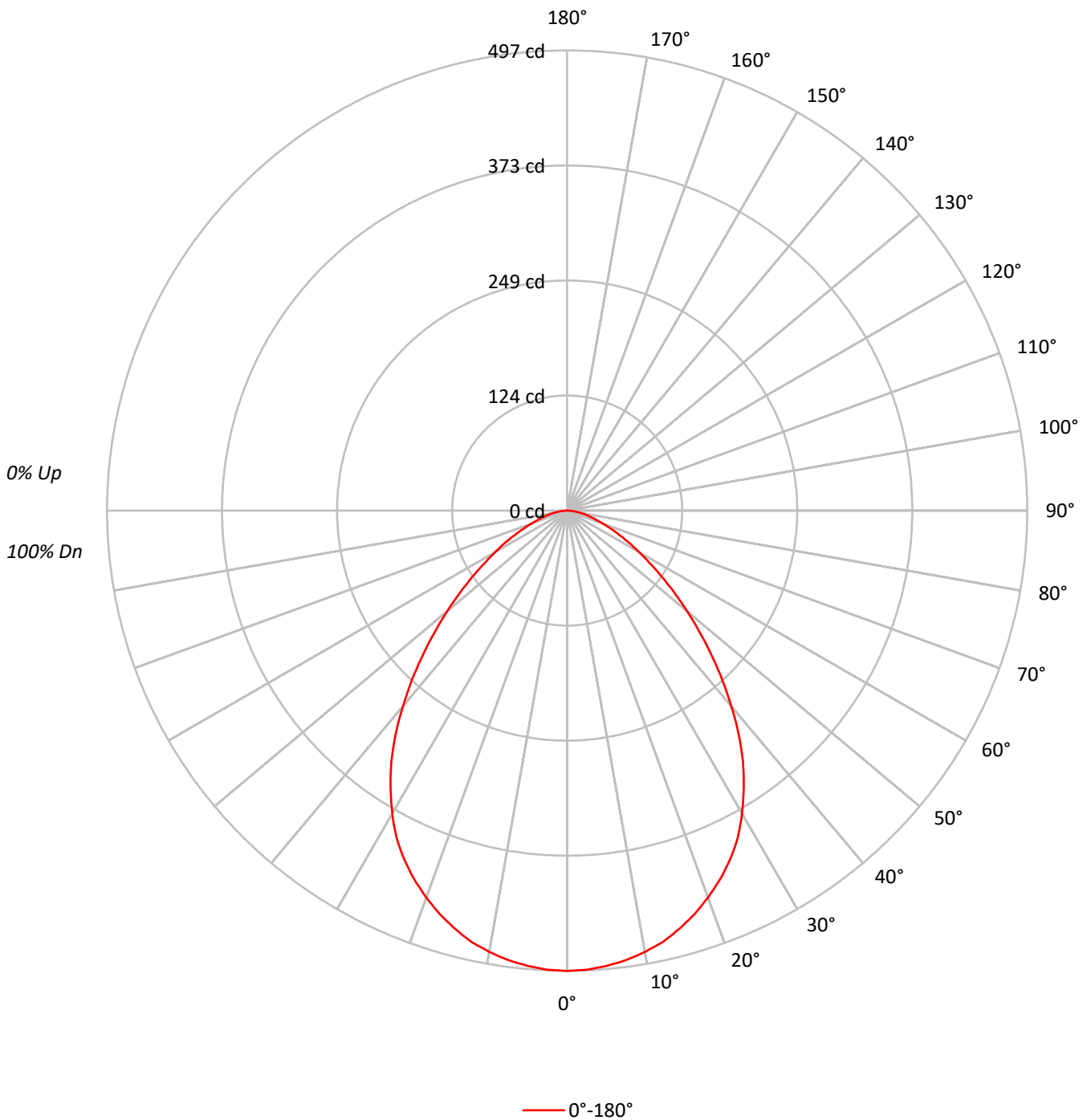
Input Watts (W): 10.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	92917
5°	92559
10°	91827
15°	90469
20°	88442
25°	85783
30°	81531
35°	75545
40°	67269
45°	58238
50°	49124
55°	40719
60°	33557
65°	27455
70°	21906
75°	18553
80°	16463
85°	14363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	4.9
10°-20°	131.7	13.8
20°-30°	190.9	20.0
30°-40°	205.7	21.5
40°-50°	170.1	17.8
50°-60°	112.9	11.8
60°-70°	62.5	6.5
70°-80°	27.9	2.9
80°-90°	7.3	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°	369.5	38.7
0°-40°	575.1	60.2
0°-60°	858.1	89.8
0°-90°	955.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	497	
5°	494	47
15°	468	132
25°	416	191
35°	331	206
45°	220	170
55°	125	113
65°	62	62
75°	26	28
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	497.3
2.5°	496.3
5°	493.5
7.5°	489.6
10°	484.0
12.5°	477.2
15°	467.7
17.5°	457.1
20°	444.8
22.5°	431.4
25°	416.1
27.5°	399.0
30°	377.9
32.5°	355.0
35°	331.2
37.5°	304.4
40°	275.8
42.5°	248.1
45°	220.4
47.5°	193.7
50°	169.0
52.5°	146.0
55°	125.0
57.5°	105.9
60°	89.8
62.5°	75.4
65°	62.1
67.5°	50.6
70°	40.1
72.5°	32.5
75°	25.7
77.5°	20.1
80°	15.3
82.5°	10.5
85°	6.7
87.5°	2.0
90°	0.0

(END OF REPORT)