

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: P382122

Luminaire Tested: **RA4069S1EWHMDMR-2700K**

Test Date: 12/10/2019

Test Information

Test Method: LM-41-14
Report Number: P382122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1912-596-4)
Test Lab: INNOVATION CENTER (G2)
Test Date: 12/10/2019
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RA4069S1EWHMDMR-2700K
Description: HALO RA Direct Mount Downlight 4" 2700K
Light Source: (24) 90 CRI LEDS
BRIDGELUX2835
Ballast/Driver: ELECTRICAL DRIVER

Summary

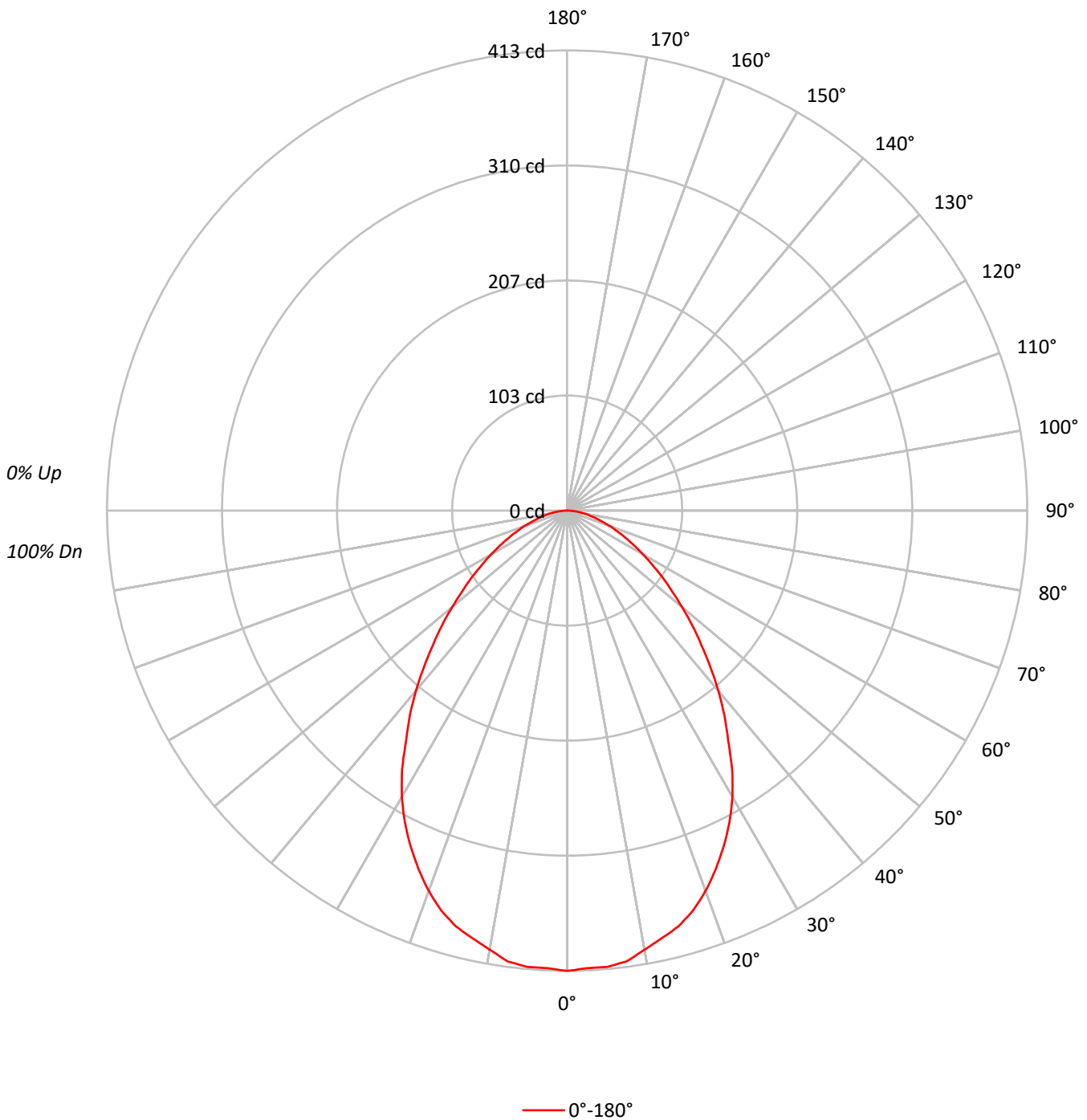
Lumens per Lamp: N/A
Luminaire Lumens: 778.2 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.14
Luminous Opening: Circular (Dia: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 8.24
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	110	106	103	100	108	104	101	98	100	97	95		96	94	92		93	91	89	87
2	102	95	89	84	99	93	88	83	90	85	81		86	83	79		83	80	78	76
3	94	85	78	72	92	83	77	72	81	75	70		78	73	69		75	71	68	66
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55		64	59	54		63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49		59	53	48		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	48	43	42
8	66	53	46	40	64	53	45	40	51	45	40		50	44	40		49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36		47	41	36		46	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107803
5°	107665
10°	106021
15°	104339
20°	100892
25°	95711
30°	89375
35°	80217
40°	71879
45°	62813
50°	54524
55°	47545
60°	41023
65°	35629
70°	31130
75°	27123
80°	24045
85°	20959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	5.0
10°-20°	108.4	13.9
20°-30°	152.6	19.6
30°-40°	158.1	20.3
40°-50°	131.8	16.9
50°-60°	93.7	12.0
60°-70°	57.8	7.4
70°-80°	28.8	3.7
80°-90°	8.1	1.0
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°	299.9	38.5
0°-40°	458.0	58.9
0°-60°	683.5	87.8
0°-90°	778.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	413	
5°	411	39
15°	386	108
25°	332	153
35°	252	158
45°	170	132
55°	104	94
65°	58	58
75°	27	29
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	413.1
2.5°	411.0
5°	411.0
7.5°	408.1
10°	400.1
12.5°	393.1
15°	386.2
17.5°	376.3
20°	363.3
22.5°	348.4
25°	332.4
27.5°	315.5
30°	296.6
32.5°	275.7
35°	251.8
37.5°	231.9
40°	211.0
42.5°	190.0
45°	170.2
47.5°	152.2
50°	134.3
52.5°	118.5
55°	104.5
57.5°	90.6
60°	78.6
62.5°	67.6
65°	57.7
67.5°	48.7
70°	40.8
72.5°	32.9
75°	26.9
77.5°	20.9
80°	16.0
82.5°	11.9
85°	7.0
87.5°	3.0
90°	0.0

(END OF REPORT)