

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: P256533

Luminaire Tested: **RL4099S1EWH -3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25992-R2)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: RL4099S1EWH -3000K
Description: Halo RL 4in Downlight - SeleCCTable 3000K
Light Source: -
Ballast/Driver: -

Summary

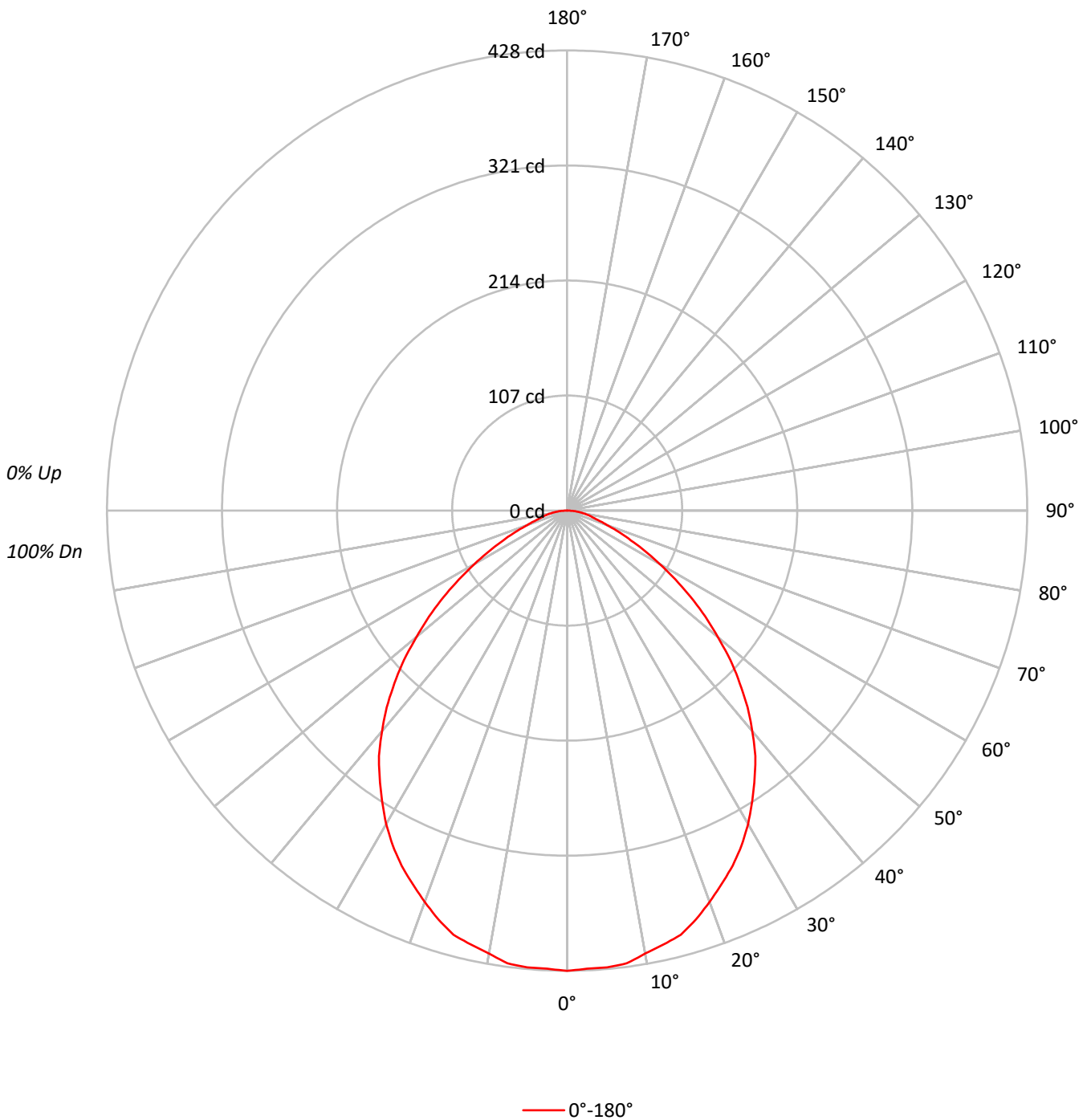
Lumens per Lamp: N/A
Luminaire Lumens: 915.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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	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	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	69	60	54	78	67	60	54	65	59	54	64	58	53	62	57	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41307
5°	41310
10°	40984
15°	40806
20°	39768
25°	38795
30°	37503
35°	35797
40°	33757
45°	30989
50°	27470
55°	23635
60°	19240
65°	14932
70°	11059
75°	9134
80°	9057
85°	9078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	4.4
10°-20°	114.6	12.5
20°-30°	167.5	18.3
30°-40°	189.9	20.7
40°-50°	174.7	19.1
50°-60°	125.5	13.7
60°-70°	66.3	7.2
70°-80°	27.5	3.0
80°-90°	8.4	0.9
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°	322.6	35.3
0°-40°	512.5	56.0
0°-60°	812.7	88.8
0°-90°	915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	915.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	428	
5°	426	40
15°	408	115
25°	364	168
35°	304	190
45°	227	175
55°	140	126
65°	65	66
75°	24	28
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	428.1
2.5°	426.5
5°	426.5
7.5°	424.8
10°	418.3
12.5°	413.4
15°	408.5
17.5°	398.7
20°	387.3
22.5°	375.8
25°	364.4
27.5°	351.3
30°	336.6
32.5°	320.3
35°	303.9
37.5°	287.6
40°	268.0
42.5°	248.4
45°	227.1
47.5°	205.9
50°	183.0
52.5°	161.8
55°	140.5
57.5°	119.3
60°	99.7
62.5°	81.7
65°	65.4
67.5°	52.3
70°	39.2
72.5°	31.0
75°	24.5
77.5°	21.2
80°	16.3
82.5°	11.4
85°	8.2
87.5°	3.3
90°	0.0

(END OF REPORT)