

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: P256535

Luminaire Tested: **RL4099S1EWH -4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P256535
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 -4000K
Description: Halo RL 4in Downlight - SeleCCTable 4000K
Light Source: -
Ballast/Driver: -

Summary

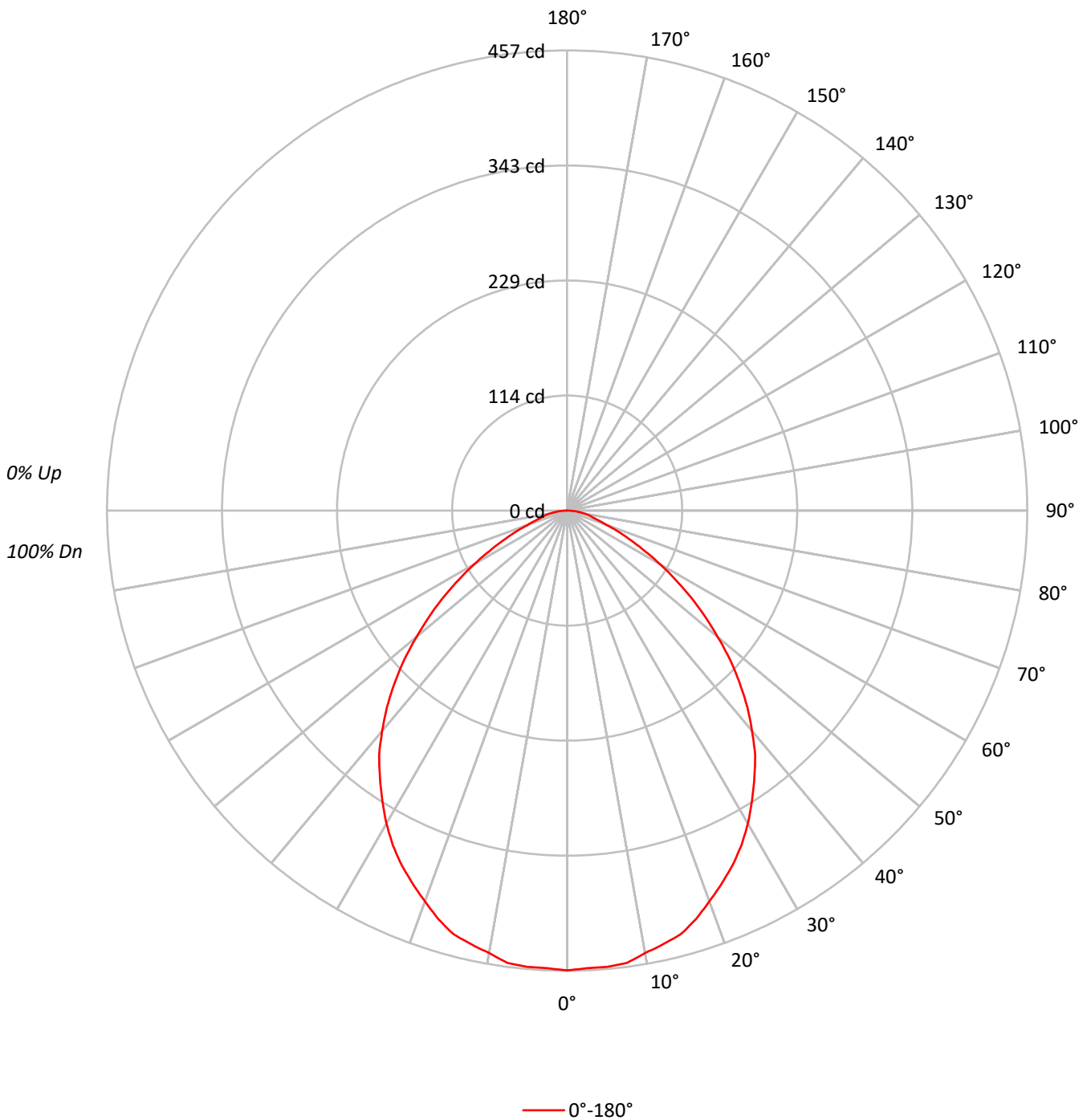
Lumens per Lamp: N/A
Luminaire Lumens: 976.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	44057
5°	44060
10°	43718
15°	43523
20°	42418
25°	41382
30°	39998
35°	38188
40°	35999
45°	33063
50°	29301
55°	25217
60°	20514
65°	15913
70°	11792
75°	9730
80°	9668
85°	9632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	4.4
10°-20°	122.2	12.5
20°-30°	178.7	18.3
30°-40°	202.5	20.7
40°-50°	186.3	19.1
50°-60°	133.9	13.7
60°-70°	70.7	7.2
70°-80°	29.4	3.0
80°-90°	9.0	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°	344.1	35.3
0°-40°	546.6	56.0
0°-60°	866.8	88.8
0°-90°	976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	457	
5°	455	43
15°	436	122
25°	389	179
35°	324	203
45°	242	186
55°	150	134
65°	70	71
75°	26	29
85°	9	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	456.6
2.5°	454.9
5°	454.9
7.5°	453.2
10°	446.2
12.5°	441.0
15°	435.7
17.5°	425.3
20°	413.1
22.5°	400.9
25°	388.7
27.5°	374.7
30°	359.0
32.5°	341.6
35°	324.2
37.5°	306.8
40°	285.8
42.5°	264.9
45°	242.3
47.5°	219.6
50°	195.2
52.5°	172.5
55°	149.9
57.5°	127.2
60°	106.3
62.5°	87.1
65°	69.7
67.5°	55.8
70°	41.8
72.5°	33.1
75°	26.1
77.5°	22.7
80°	17.4
82.5°	12.2
85°	8.7
87.5°	3.5
90°	0.0

(END OF REPORT)