

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: P22589

Luminaire Tested: **RL406830SN**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P22589  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: RL406830SN  
Description: HALO RL4 RETROFIT WITH SATIN NICKEL BAFFLE TRIM AND H995ICAT HOUSING.  
Light Source: (1) 3000K SMT LED  
Ballast/Driver: (1) ROAL ELECTRONIC DRIVER  
ROAL RHPS311EL-CL2

**Summary**

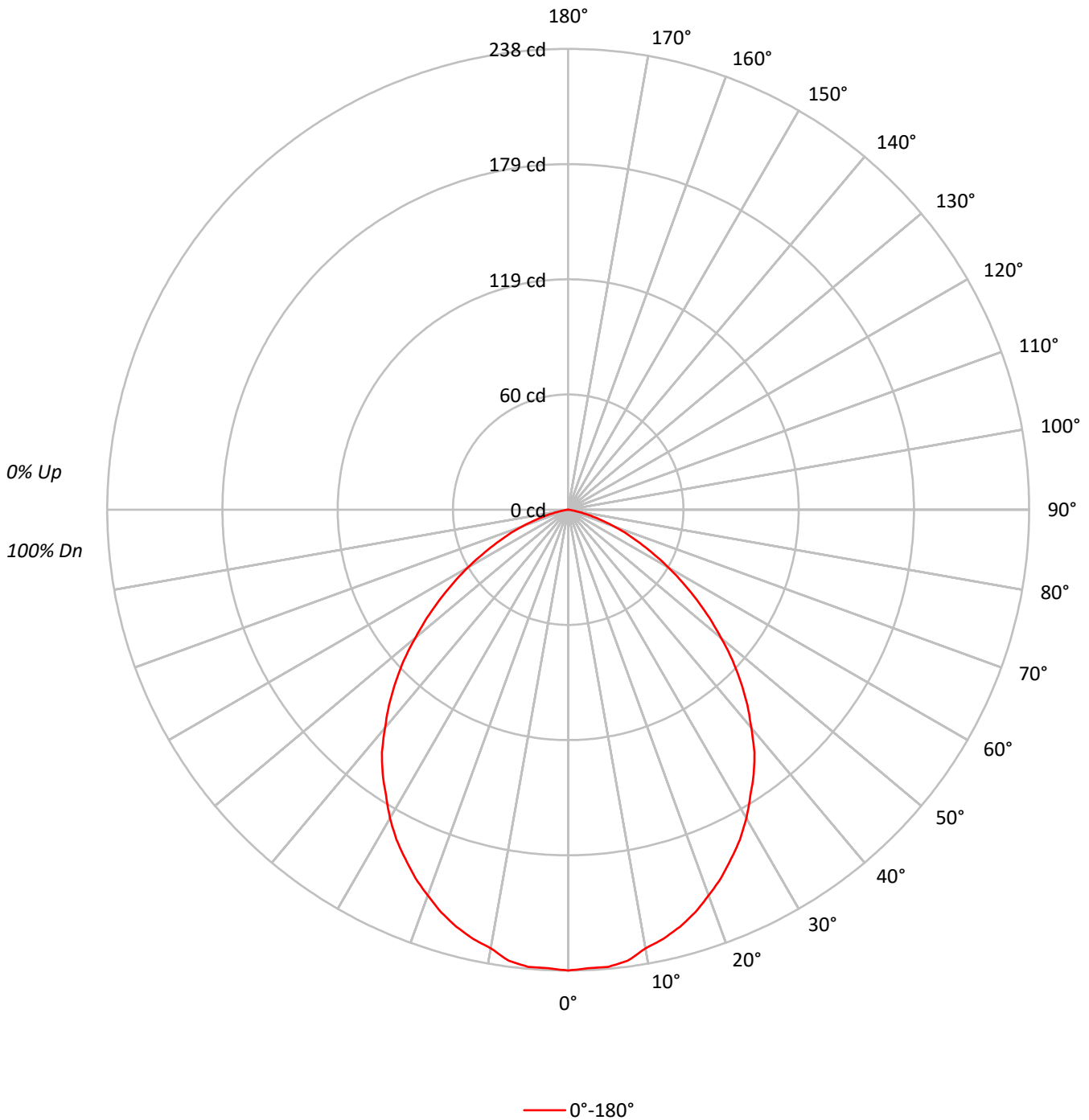
Lumens per Lamp: N/A  
Luminaire Lumens: 505.4 lumens  
Efficiency: N/A  
Efficacy: 35.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 0.27' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.3  
Input Voltage (V): 120.03  
Input Current (Ain): 0.124  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 12 HR  
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	98	100	98	95	97	94	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	67	62	72	66	61	70	65	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	74	62	54	48	73	61	54	48	60	53	47	58	52	47	56	51	47	45
7	69	57	49	43	68	56	48	43	54	48	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30

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

	0°
0°	44469
5°	44451
10°	43637
15°	43136
20°	42153
25°	41026
30°	39698
35°	38092
40°	35854
45°	33294
50°	29940
55°	26386
60°	22421
65°	18126
70°	13657
75°	8663
80°	3228
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	4.4
10°-20°	62.7	12.4
20°-30°	91.6	18.1
30°-40°	104.1	20.6
40°-50°	96.9	19.2
50°-60°	72.4	14.3
60°-70°	41.1	8.1
70°-80°	13.4	2.7
80°-90°	0.7	0.1
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°	176.8	35.0
0°-40°	280.8	55.6
0°-60°	450.2	89.1
0°-90°	505.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	238	
5°	237	22
15°	223	63
25°	199	92
35°	167	104
45°	126	97
55°	81	72
65°	41	41
75°	12	13
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	238
2.5°	237
5°	237
7.5°	235
10°	230
12.5°	227
15°	223
17.5°	218
20°	212
22.5°	206
25°	199
27.5°	192
30°	184
32.5°	175
35°	167
37.5°	158
40°	147
42.5°	137
45°	126
47.5°	115
50°	103
52.5°	92
55°	81
57.5°	70
60°	60
62.5°	50
65°	41
67.5°	33
70°	25
72.5°	18
75°	12
77.5°	7
80°	3
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)