

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: P123734

Luminaire Tested: **EL406930-TL422PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P123734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13992)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: EL406930-TL422PS  
Description: HALO 4-INCH RECESSED LED DOWNLIGHT  
WHITE BAFFLE, POLYMER LENSED SHOWER TRIM AND WHITE TRIM RING  
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

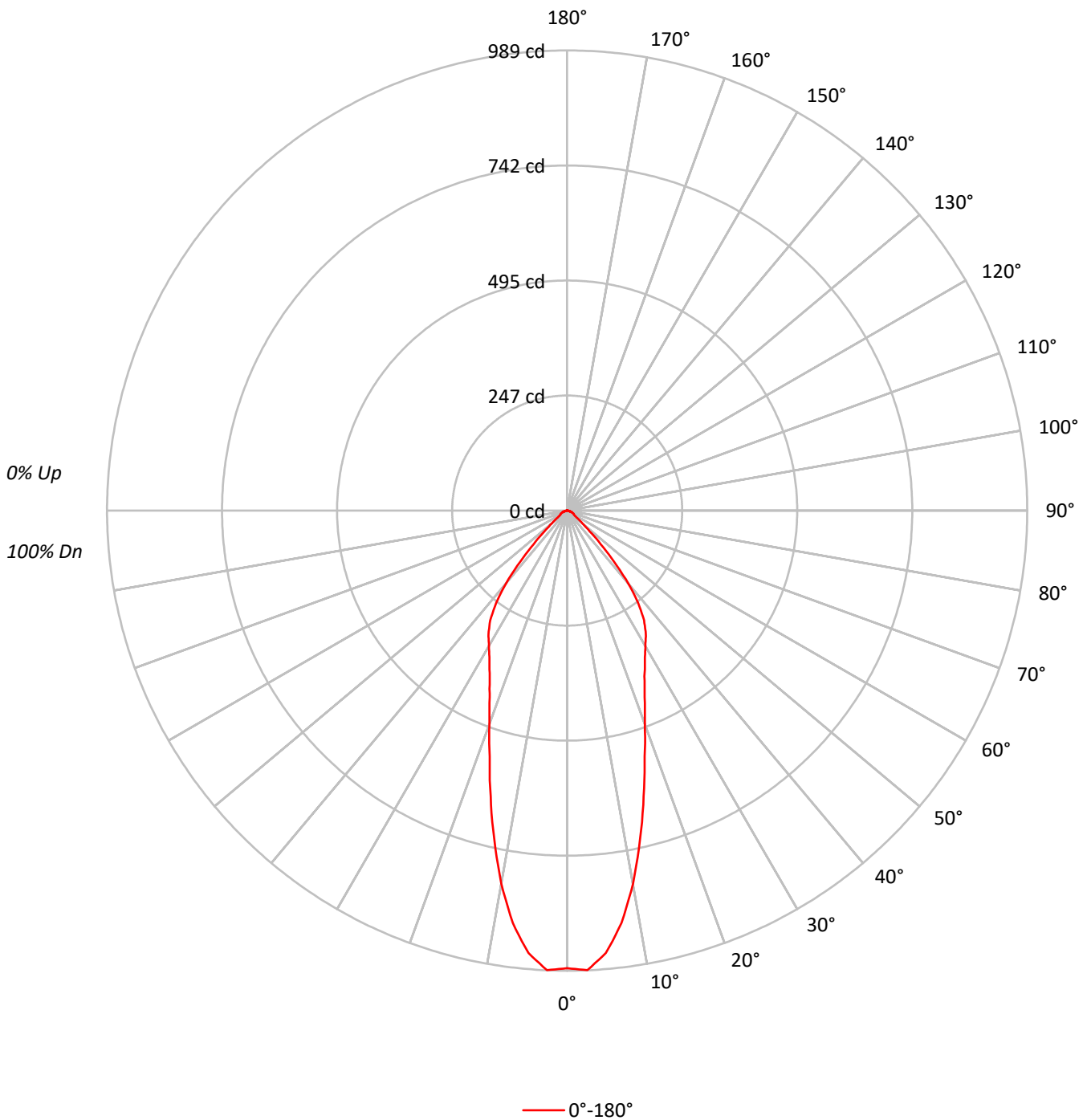
Lumens per Lamp: N/A  
Luminaire Lumens: 750.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.75  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 13  
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	113	110	107	105	110	108	105	103	103	101	100		100	98	97		96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	87	81	76	93	86	80	76	83	78	75		81	77	74		79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55		63	58	55		62	58	54	53
9	72	62	56	52	71	62	56	52	61	55	51		60	55	51		59	54	51	50
10	69	59	53	48	68	58	52	48	57	52	48		57	52	48		56	51	48	47

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

	0°
0°	158413
5°	154377
10°	133211
15°	106026
20°	83664
25°	69912
30°	62486
35°	56661
40°	43155
45°	23262
50°	10652
55°	5983
60°	5123
65°	5680
70°	3486
75°	2677
80°	3989
85°	2033



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	11.5
10°-20°	177.0	23.6
20°-30°	183.3	24.4
30°-40°	175.0	23.3
40°-50°	83.6	11.1
50°-60°	22.1	2.9
60°-70°	13.1	1.8
70°-80°	7.2	1.0
80°-90°	2.3	0.3
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°	446.8	59.6
0°-40°	621.7	82.9
0°-60°	727.4	97.0
0°-90°	750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	750.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	983	
5°	955	87
15°	636	177
25°	393	183
35°	288	175
45°	102	84
55°	21	22
65°	15	13
75°	4	7
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	983.3
2.5°	988.7
5°	954.6
7.5°	894.0
10°	814.3
12.5°	724.0
15°	635.7
17.5°	553.9
20°	488.0
22.5°	434.8
25°	393.3
27.5°	361.4
30°	335.9
32.5°	314.7
35°	288.1
37.5°	250.9
40°	205.2
42.5°	148.8
45°	102.1
47.5°	65.9
50°	42.5
52.5°	30.8
55°	21.3
57.5°	18.1
60°	15.9
62.5°	14.9
65°	14.9
67.5°	11.7
70°	7.4
72.5°	10.6
75°	4.3
77.5°	6.4
80°	4.3
82.5°	3.2
85°	1.1
87.5°	2.1
90°	0.0

(END OF REPORT)