

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: P85562

Luminaire Tested: **ML706840-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85562
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706840-493PS06-H750ICAT
Description: HALO 6 INCH LED DOWNLIGHT WITH 600 Lmn MODULE, SOLITE LENS AND WHITE REFLECTOR. ---ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING A 500 WATT, NIST TRACEABLE, OMNI-DIRECTIONAL LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET---
Light Source: (1)SMT LED 4000K
CL-L221-C14L2-B
Ballast/Driver: (1)ELECTRONIC DRIVER
RLD011

Summary

Lumens per Lamp: 689 (1 lamp)
Luminaire Lumens: 693.1 lumens
Efficiency: 100.6%
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.79
Luminous Opening: Vertical Cylinder (Dia: 0.48' x H: 0.1')
CIE Type: Direct

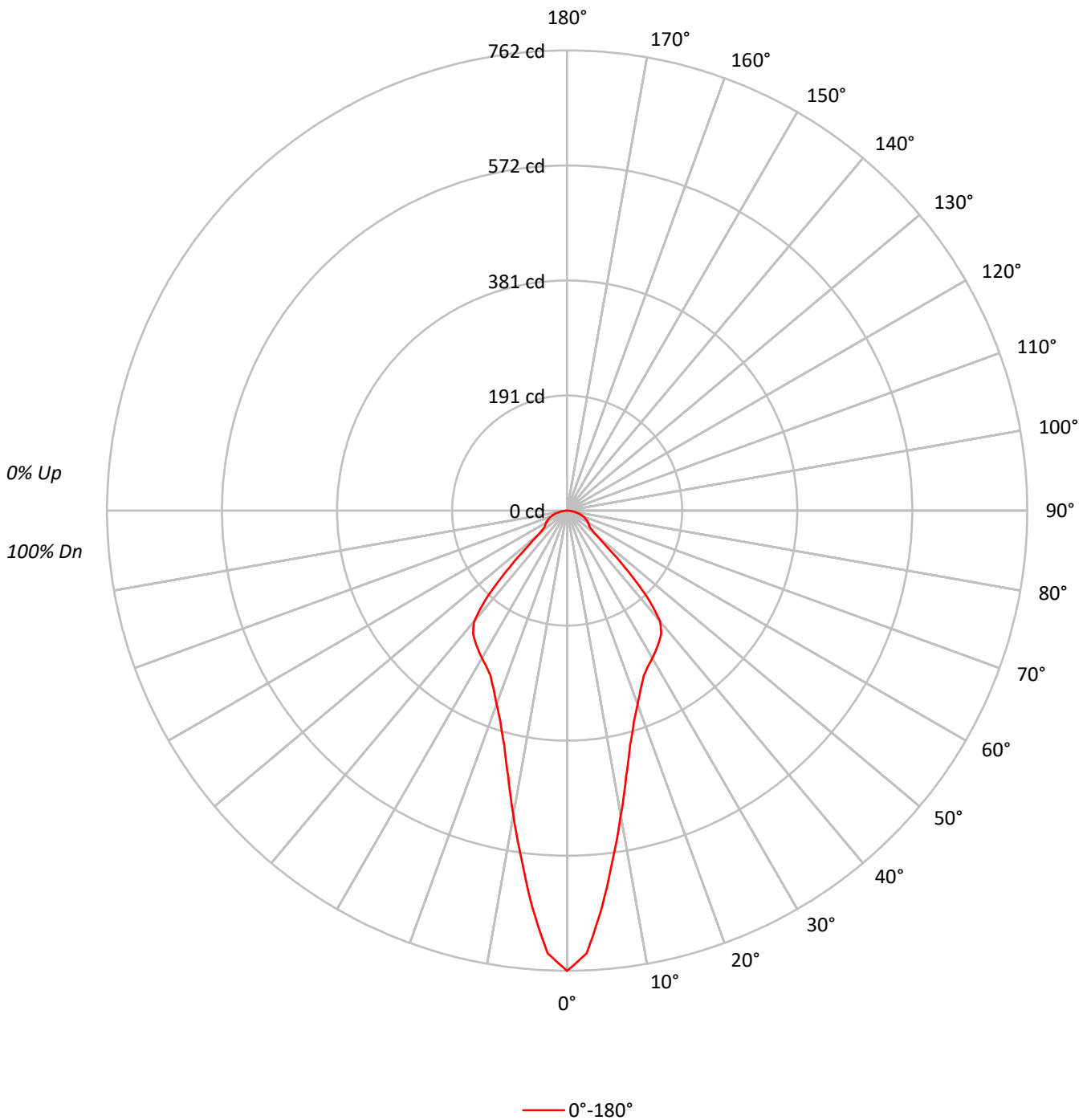
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): 0.123
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	120	120	120	120	117	117	117	117	112	112	112		107	107	107		103	103	103	101
1	112	108	105	102	109	106	103	100	102	100	97		98	96	94		95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	81	80
3	97	89	82	77	95	87	81	77	85	80	75		82	78	74		80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67		75	71	67		73	69	66	64
5	85	74	67	62	83	73	67	61	71	65	61		70	64	60		68	63	60	58
6	80	69	61	56	78	68	61	56	66	60	55		65	59	55		63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	67	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	63	51	44	40	62	51	44	40	50	44	40		49	44	40		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45502
5°	38624
10°	29650
15°	23214
20°	19751
25°	17633
30°	16852
35°	16312
40°	15260
45°	9604
50°	4408
55°	3380
60°	3278
65°	3077
70°	2855
75°	2455
80°	1618
85°	594



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	58.3	8.4	8.5
10°-20°	114.2	16.5	16.6
20°-30°	140.5	20.3	20.4
30°-40°	165.4	23.9	24.0
40°-50°	111.5	16.1	16.2
50°-60°	42.0	6.1	6.1
60°-70°	34.2	4.9	5.0
70°-80°	21.8	3.1	3.2
80°-90°	5.1	0.7	0.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	313.0	45.2	45.4
0°-40°	478.4	69.0	69.4
0°-60°	632.0	91.2	91.7
0°-90°	693.1	100.0	100.6
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	693.1	100.0	100.6

CANDELA DISTRIBUTION:

	0°	Flux
0°	762	
5°	660	58
15°	402	114
25°	301	141
35°	266	165
45°	144	112
55°	45	42
65°	34	34
75°	21	22
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	762.3
2.5°	734.0
5°	659.6
7.5°	580.6
10°	512.1
12.5°	450.8
15°	402.4
17.5°	367.0
20°	341.0
22.5°	318.6
25°	300.9
27.5°	290.3
30°	282.0
32.5°	273.8
35°	265.5
37.5°	256.1
40°	239.5
42.5°	200.6
45°	144.0
47.5°	90.9
50°	62.5
52.5°	49.6
55°	44.8
57.5°	42.5
60°	40.1
62.5°	37.8
65°	34.2
67.5°	31.9
70°	28.3
72.5°	24.8
75°	21.2
77.5°	16.5
80°	11.8
82.5°	8.3
85°	3.5
87.5°	1.2
90°	0.0

(END OF REPORT)