

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: P85560

Luminaire Tested: **ML706830-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85560
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706830-493PS06-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 3000K
CL-L221-C14L2-B
Ballast/Driver: (1)ELECTRONIC DRIVER
RLD011

Summary

Lumens per Lamp: 624 (1 lamp)
Luminaire Lumens: 622.6 lumens
Efficiency: 99.8%
Efficacy: 44.5 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

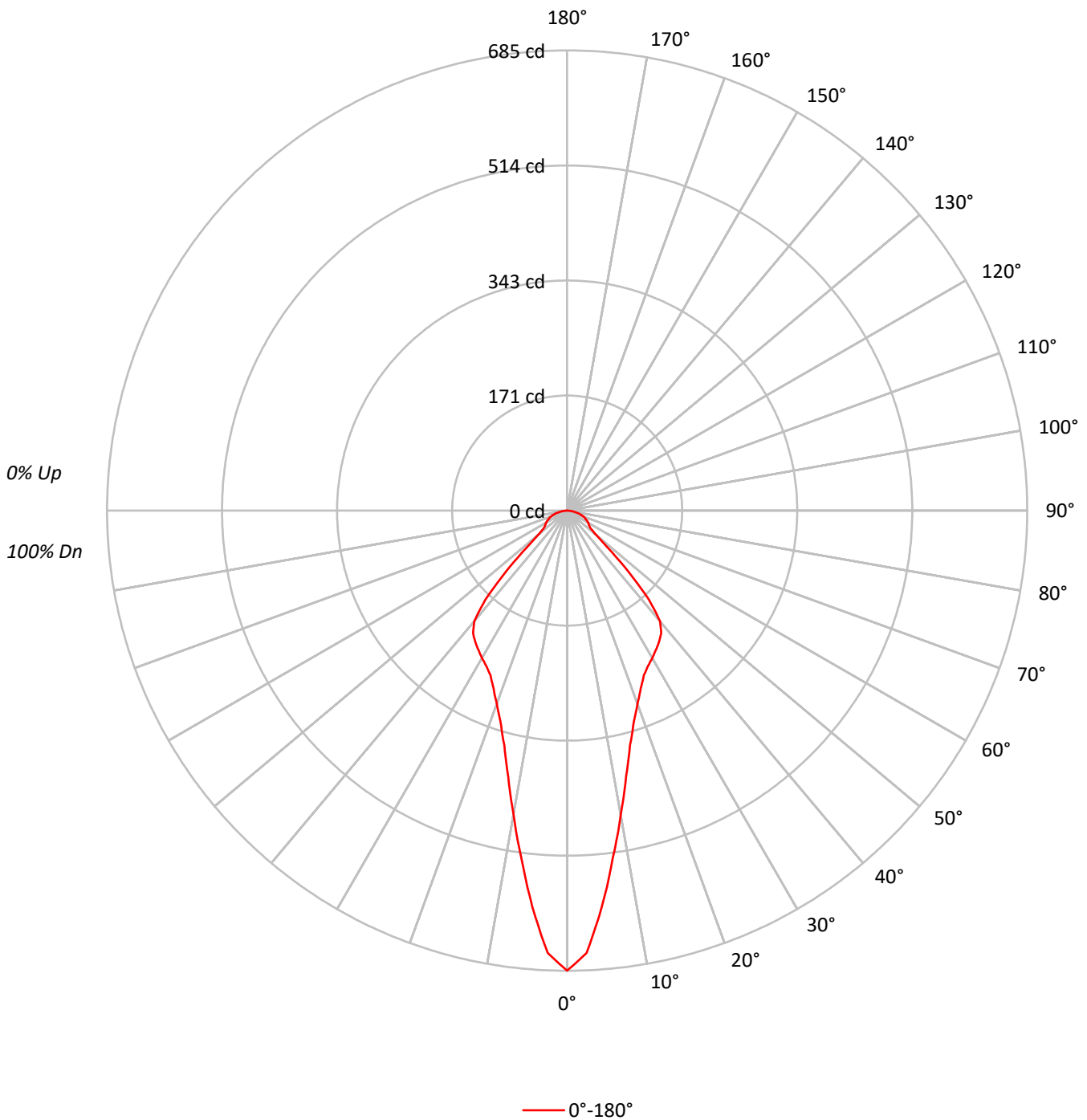
Input Watts (W): 14
Input Voltage (V): NR
Input Current (A_{in}): 0.123
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P85560

CATALOG NUMBER: ML706830-493PS06-H750ICAT

Luminous Intensity Polar Plot





TEST NUMBER: P85560

CATALOG NUMBER: ML706830-493PS06-H750ICAT

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	104	101	109	105	102	100	101	99	96		97	95	94		94	92	91	89
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75		81	77	74		79	75	72	70
4	90	81	73	68	88	79	73	68	77	71	67		75	70	66		73	69	65	63
5	84	74	67	61	82	73	66	61	71	65	60		69	64	60		67	63	59	57
6	79	68	61	55	77	67	60	55	66	59	55		64	58	54		63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50		59	54	50		58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42		52	46	42		51	46	42	40
10	62	51	44	40	61	50	44	39	50	44	39		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40876
5°	34695
10°	26633
15°	20855
20°	17741
25°	15840
30°	15137
35°	14653
40°	13711
45°	8623
50°	3964
55°	3040
60°	2943
65°	2762
70°	2562
75°	2212
80°	1453
85°	543



TEST NUMBER: P85560

CATALOG NUMBER: ML706830-493PS06-H750ICAT

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.3	8.4	8.4
10°-20°	102.6	16.5	16.4
20°-30°	126.2	20.3	20.2
30°-40°	148.6	23.9	23.8
40°-50°	100.2	16.1	16.0
50°-60°	37.8	6.1	6.1
60°-70°	30.7	4.9	4.9
70°-80°	19.6	3.1	3.1
80°-90°	4.6	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°	281.2	45.2	45.1
0°-40°	429.8	69.0	68.9
0°-60°	567.7	91.2	91.0
0°-90°	622.6	100.0	99.8
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°	622.6	100.0	99.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	685	
5°	592	52
15°	362	103
25°	270	126
35°	238	149
45°	129	100
55°	40	38
65°	31	31
75°	19	20
85°	3	5
90°	0	



TEST NUMBER: P85560

CATALOG NUMBER: ML706830-493PS06-H750ICAT

CANDELA DISTRIBUTION (FULL):

	0°
0°	684.8
2.5°	659.3
5°	592.5
7.5°	521.5
10°	460.0
12.5°	404.9
15°	361.5
17.5°	329.7
20°	306.3
22.5°	286.2
25°	270.3
27.5°	260.8
30°	253.3
32.5°	245.9
35°	238.5
37.5°	230.0
40°	215.2
42.5°	180.2
45°	129.3
47.5°	81.6
50°	56.2
52.5°	44.5
55°	40.3
57.5°	38.2
60°	36.0
62.5°	33.9
65°	30.7
67.5°	28.6
70°	25.4
72.5°	22.3
75°	19.1
77.5°	14.8
80°	10.6
82.5°	7.4
85°	3.2
87.5°	1.1
90°	0.0

(END OF REPORT)