

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: P85561

Luminaire Tested: **ML706835-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P85561
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706835-493PS06-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 3500K
CL-L221-C14L2-B
Ballast/Driver: (1)ELECTRONIC DRIVER
RLD011

Summary

Lumens per Lamp: 658 (1 lamp)
Luminaire Lumens: 657.8 lumens
Efficiency: 100.0%
Efficacy: 47.0 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

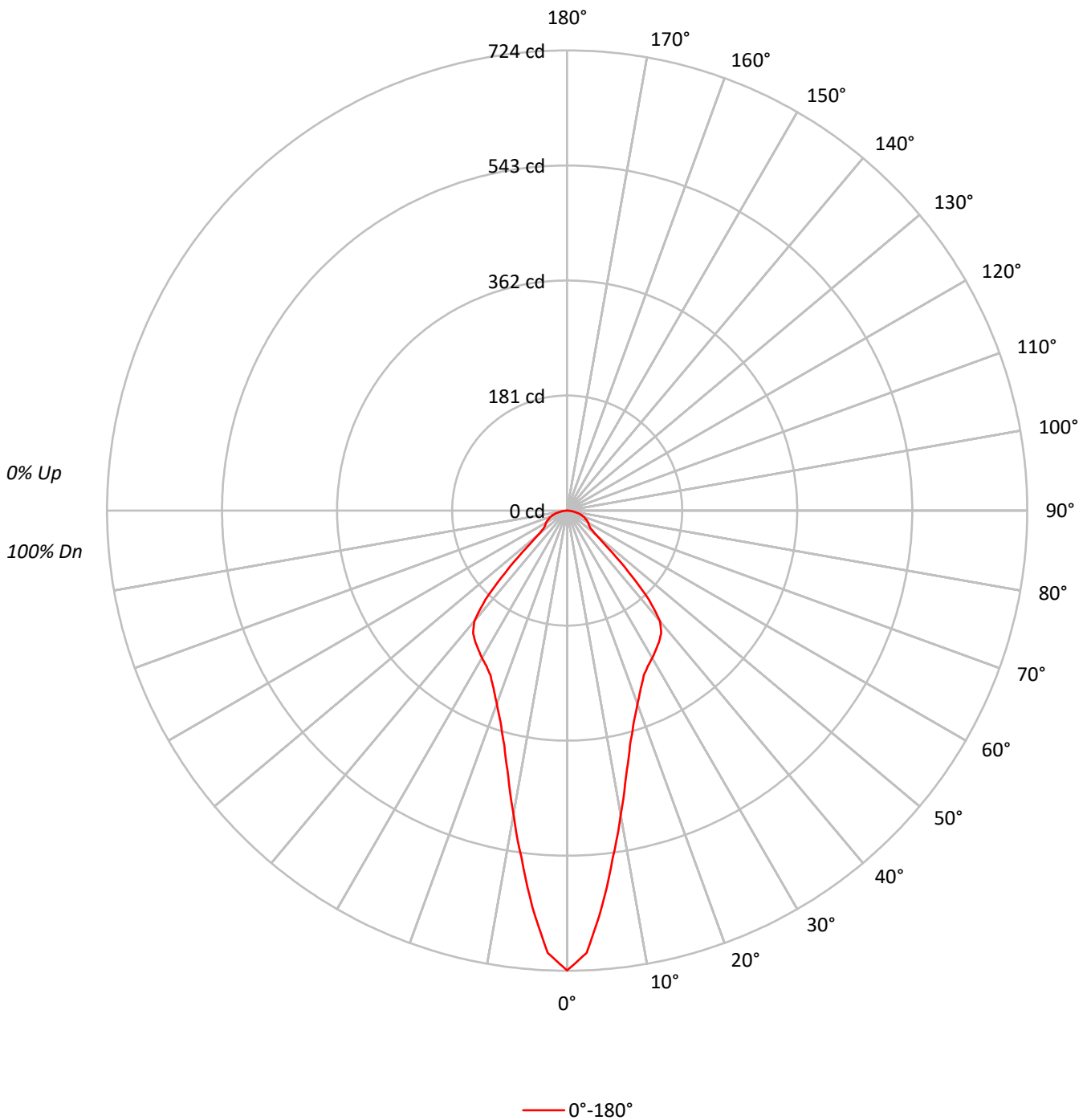
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): 0.123
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97		98	96	94		94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85		89	86	83		86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75		82	77	74		79	76	72	71
4	90	81	74	68	88	79	73	68	77	71	67		75	70	66		73	69	65	63
5	85	74	67	61	83	73	66	61	71	65	60		69	64	60		68	63	59	57
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63	58	54	52
7	74	63	56	51	73	62	55	50	61	55	50		60	54	50		58	53	49	48
8	70	59	51	46	69	58	51	46	57	50	46		56	50	46		55	49	46	44
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51	46	42	41
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43186
5°	36663
10°	28145
15°	22031
20°	18749
25°	16736
30°	15997
35°	15482
40°	14489
45°	9110
50°	4189
55°	3214
60°	3115
65°	2924
70°	2714
75°	2339
80°	1536
85°	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	55.3	8.4	8.4
10°-20°	108.4	16.5	16.5
20°-30°	133.4	20.3	20.3
30°-40°	157.0	23.9	23.9
40°-50°	105.8	16.1	16.1
50°-60°	39.9	6.1	6.1
60°-70°	32.4	4.9	4.9
70°-80°	20.7	3.1	3.1
80°-90°	4.9	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°	297.1	45.2	45.2
0°-40°	454.1	69.0	69.0
0°-60°	599.8	91.2	91.2
0°-90°	657.8	100.0	100.0
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°	657.8	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	724	
5°	626	55
15°	382	108
25°	286	133
35°	252	157
45°	137	106
55°	43	40
65°	32	32
75°	20	21
85°	3	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	723.5
2.5°	696.6
5°	626.1
7.5°	551.0
10°	486.1
12.5°	427.8
15°	381.9
17.5°	348.3
20°	323.7
22.5°	302.4
25°	285.6
27.5°	275.5
30°	267.7
32.5°	259.8
35°	252.0
37.5°	243.0
40°	227.4
42.5°	190.4
45°	136.6
47.5°	86.2
50°	59.4
52.5°	47.0
55°	42.6
57.5°	40.3
60°	38.1
62.5°	35.8
65°	32.5
67.5°	30.2
70°	26.9
72.5°	23.5
75°	20.2
77.5°	15.7
80°	11.2
82.5°	7.8
85°	3.4
87.5°	1.1
90°	0.0

(END OF REPORT)