

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: P21276

Luminaire Tested: **ML706827-493PS06-H750ICAT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P21276
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML706827-493PS06-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 2700K
CL-L221-C14L2-B
Ballast/Driver: (1)ELECTRONIC DRIVER
RLD011

Summary

Lumens per Lamp: 586 (1 lamp)
Luminaire Lumens: 587.3 lumens
Efficiency: 100.2%
Efficacy: 42.0 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.79
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

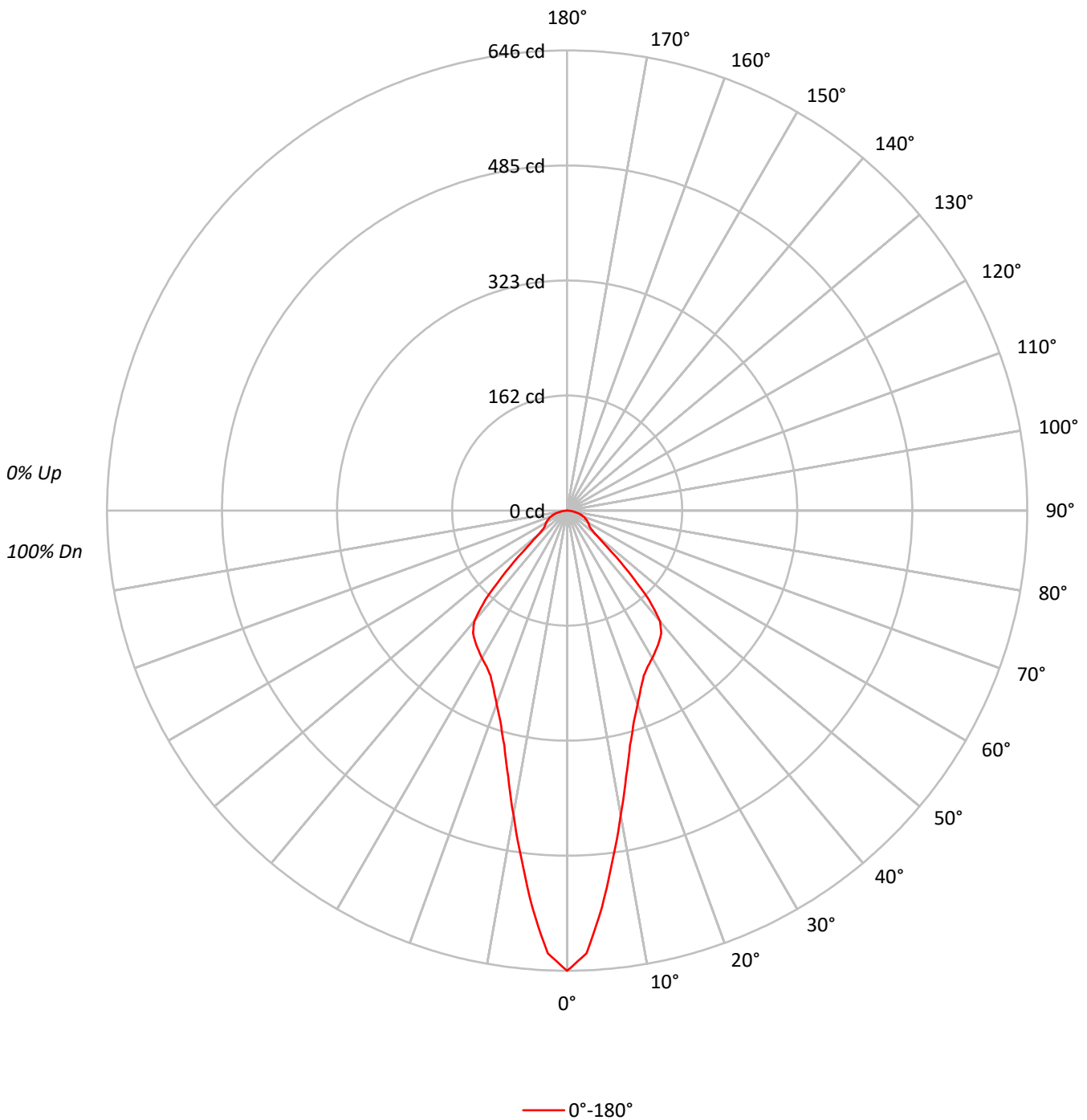
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): 0.123
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 6 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	111	111	111		107	107	107		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	92	88	102	96	91	87	92	88	85		89	86	83		86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75		82	77	74		79	76	73	71
4	91	81	74	68	89	80	73	68	77	72	67		75	70	66		73	69	65	64
5	85	74	67	61	83	73	66	61	71	65	61		69	64	60		68	63	59	58
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63	58	54	52
7	75	63	56	51	73	62	55	51	61	55	50		60	54	50		59	53	50	48
8	70	59	51	46	69	58	51	46	57	51	46		56	50	46		55	50	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	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38560
5°	33495
10°	26305
15°	21073
20°	18358
25°	16795
30°	16473
35°	16395
40°	15818
45°	10299
50°	4922
55°	3955
60°	4059
65°	4096
70°	4189
75°	4151
80°	3437
85°	2055



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.4	8.4	8.4
10°-20°	96.8	16.5	16.5
20°-30°	119.1	20.3	20.3
30°-40°	140.1	23.9	23.9
40°-50°	94.5	16.1	16.1
50°-60°	35.6	6.1	6.1
60°-70°	29.0	4.9	4.9
70°-80°	18.5	3.1	3.2
80°-90°	4.3	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°	265.3	45.2	45.3
0°-40°	405.4	69.0	69.2
0°-60°	535.6	91.2	91.4
0°-90°	587.3	100.0	100.2
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°	587.3	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	646	
5°	559	49
15°	341	97
25°	255	119
35°	225	140
45°	122	94
55°	38	36
65°	29	29
75°	18	18
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	646
2.5°	622
5°	559
7.5°	492
10°	434
12.5°	382
15°	341
17.5°	311
20°	289
22.5°	270
25°	255
27.5°	246
30°	239
32.5°	232
35°	225
37.5°	217
40°	203
42.5°	170
45°	122
47.5°	77
50°	53
52.5°	42
55°	38
57.5°	36
60°	34
62.5°	32
65°	29
67.5°	27
70°	24
72.5°	21
75°	18
77.5°	14
80°	10
82.5°	7
85°	3
87.5°	1
90°	0

(END OF REPORT)