

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: P20245

Luminaire Tested: **ML709827ICAT120D-494WB06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20245
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709827ICAT120D-494WB06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN TRIM REFLECTOR
Light Source: HIGH OUTPUT LED
LED 14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

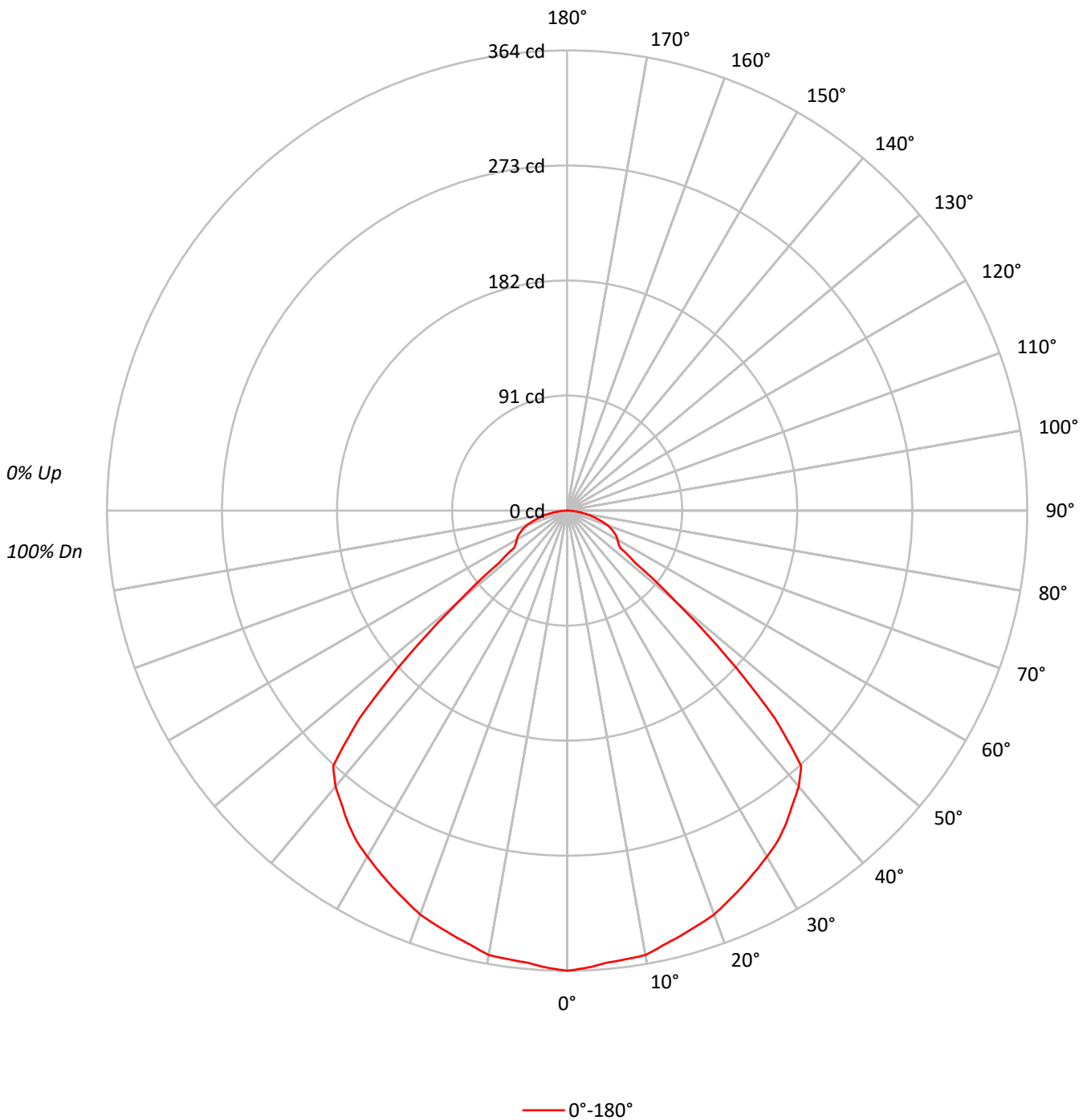
Lumens per Lamp: 767 (1 lamp)
Luminaire Lumens: 768.2 lumens
Efficiency: 100.2%
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.37
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14.3
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		107	107	107		102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63		72	67	63		70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50		60	54	50		59	54	49	48
7	71	59	51	46	70	58	51	46	57	50	45		55	49	45		54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50	45	40	39
9	62	50	43	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19955
5°	19756
10°	19873
15°	19750
20°	19835
25°	19840
30°	20003
35°	20211
40°	20395
45°	17986
50°	9637
55°	4874
60°	5043
65°	5318
70°	5450
75°	5083
80°	4420
85°	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	34.2	4.5	4.5
10°-20°	98.4	12.8	12.8
20°-30°	151.5	19.7	19.8
30°-40°	188.9	24.6	24.6
40°-50°	167.9	21.8	21.9
50°-60°	54.8	7.1	7.1
60°-70°	40.4	5.3	5.3
70°-80°	25.3	3.3	3.3
80°-90°	6.8	0.9	0.9
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°	284.2	37.0	37.1
0°-40°	473.1	61.6	61.7
0°-60°	695.8	90.6	90.7
0°-90°	768.2	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°	768.2	100.0	100.2

CANDELA DISTRIBUTION:

	0°	Flux
0°	364	
5°	359	34
15°	348	98
25°	328	151
35°	302	189
45°	232	168
55°	51	55
65°	41	40
75°	24	25
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	364
2.5°	362
5°	359
7.5°	358
10°	357
12.5°	352
15°	348
17.5°	344
20°	340
22.5°	334
25°	328
27.5°	322
30°	316
32.5°	310
35°	302
37.5°	293
40°	285
42.5°	274
45°	232
47.5°	172
50°	113
52.5°	68
55°	51
57.5°	48
60°	46
62.5°	44
65°	41
67.5°	38
70°	34
72.5°	29
75°	24
77.5°	19
80°	14
82.5°	10
85°	6
87.5°	2
90°	0

(END OF REPORT)