

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: P20246

Luminaire Tested: **ML709827ICAT120D-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20246
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709827ICAT120D-494H06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE FINISH TRIM
REFLECTOR WITH MODULE
Light Source: HIGH OUTPUT LED
LED 14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

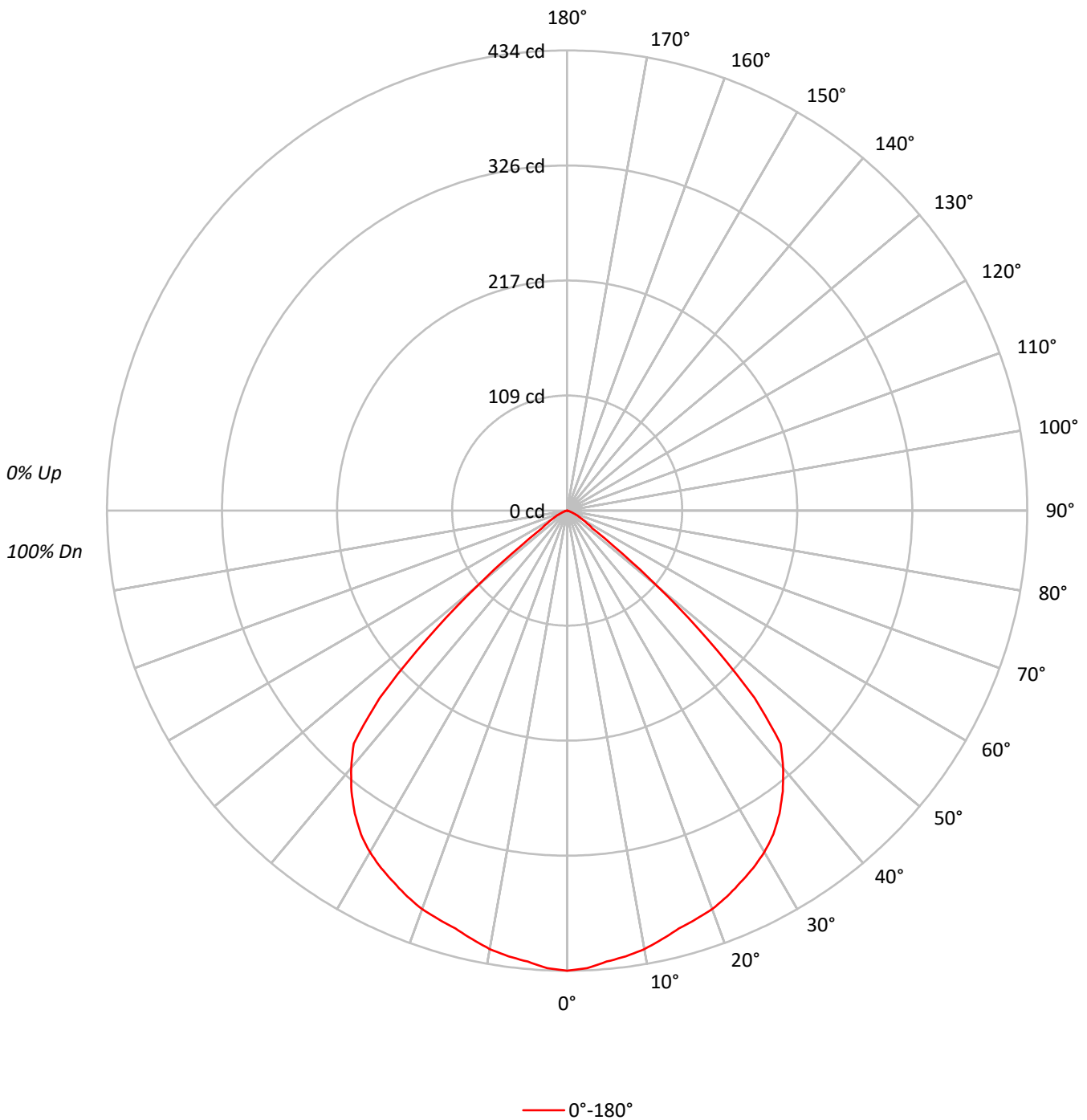
Lumens per Lamp: 781 (1 lamp)
Luminaire Lumens: 781.5 lumens
Efficiency: 100.1%
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.33
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23792
5°	23498
10°	23380
15°	23156
20°	23335
25°	23409
30°	23548
35°	23356
40°	22685
45°	19382
50°	9467
55°	2772
60°	1864
65°	1167
70°	641
75°	424
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.6	5.2	5.2
10°-20°	115.6	14.8	14.8
20°-30°	178.6	22.9	22.9
30°-40°	217.5	27.8	27.9
40°-50°	180.1	23.0	23.1
50°-60°	37.4	4.8	4.8
60°-70°	9.5	1.2	1.2
70°-80°	2.0	0.3	0.3
80°-90°	0.1	0.0	0.0
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°	334.9	42.9	42.9
0°-40°	552.4	70.7	70.7
0°-60°	769.9	98.5	98.6
0°-90°	781.5	100.0	100.1
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°	781.5	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	434	
5°	427	41
15°	408	116
25°	387	179
35°	349	218
45°	250	180
55°	29	37
65°	9	9
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	434
2.5°	432
5°	427
7.5°	424
10°	420
12.5°	414
15°	408
17.5°	404
20°	400
22.5°	394
25°	387
27.5°	380
30°	372
32.5°	362
35°	349
37.5°	334
40°	317
42.5°	298
45°	250
47.5°	180
50°	111
52.5°	55
55°	29
57.5°	22
60°	17
62.5°	13
65°	9
67.5°	6
70°	4
72.5°	2
75°	2
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)