

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: P20266

Luminaire Tested: **ML709840ICAT120D-494P06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20266
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709840ICAT120D-494P06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE PAINTED TRIM
REFLECTOR
Light Source: HIGH OUTPUT LED
14 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

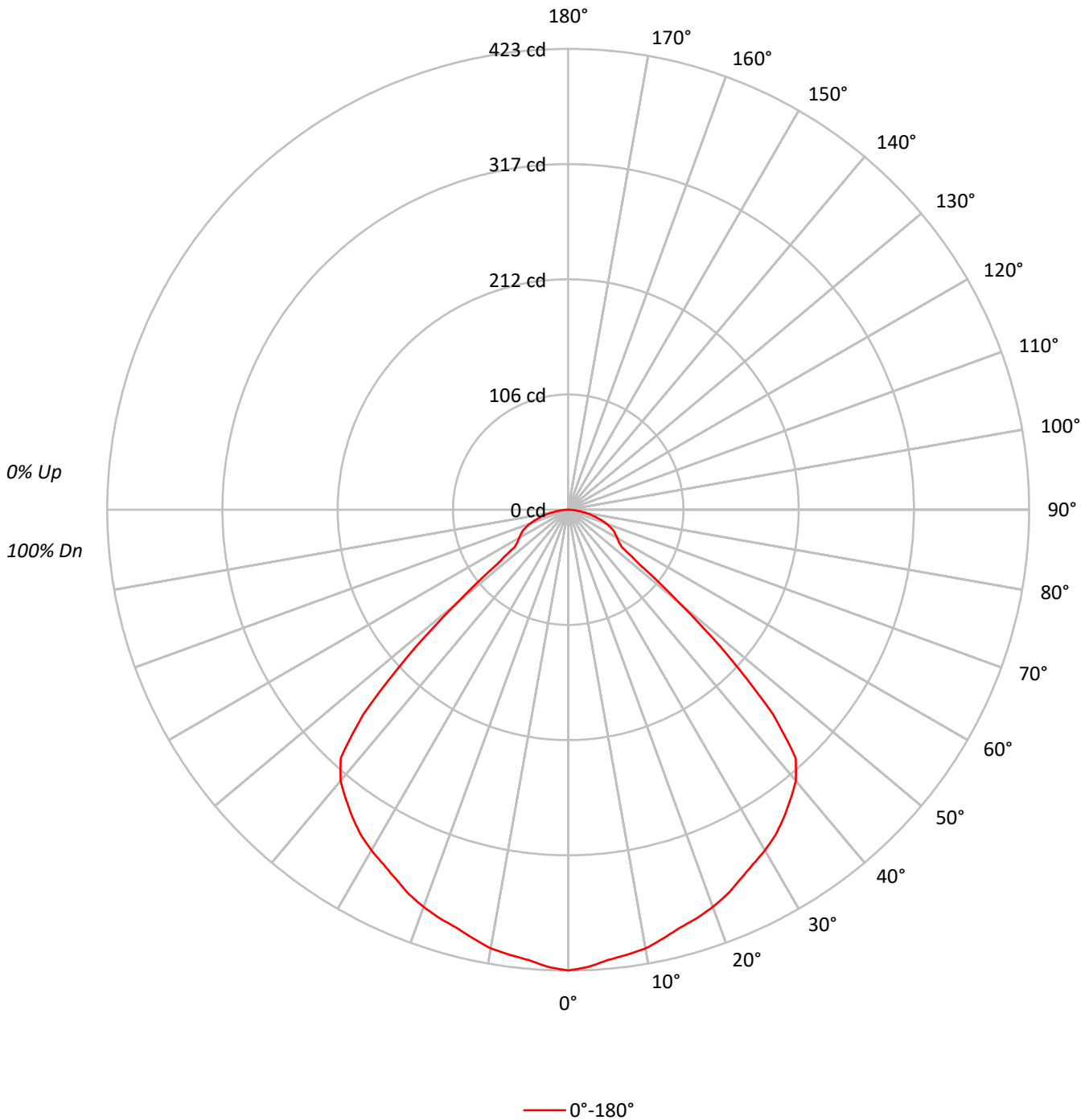
Lumens per Lamp: 876 (1 lamp)
Luminaire Lumens: 877.2 lumens
Efficiency: 100.1%
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.36
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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	101	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	80	74	93	85	79	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64		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	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	49	45		54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50	45	41	39
9	62	50	43	37	61	50	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°	23189
5°	22837
10°	22767
15°	22531
20°	22635
25°	22622
30°	22852
35°	23088
40°	23258
45°	20622
50°	11428
55°	5735
60°	5701
65°	5967
70°	5930
75°	5507
80°	4735
85°	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.5	4.5	4.5
10°-20°	112.5	12.8	12.8
20°-30°	172.9	19.7	19.7
30°-40°	215.8	24.6	24.6
40°-50°	192.6	22.0	22.0
50°-60°	64.4	7.3	7.4
60°-70°	44.9	5.1	5.1
70°-80°	27.7	3.2	3.2
80°-90°	6.9	0.8	0.8
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°	324.9	37.0	37.1
0°-40°	540.7	61.6	61.7
0°-60°	797.7	90.9	91.1
0°-90°	877.2	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°	877.2	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	423	
5°	415	39
15°	397	112
25°	374	173
35°	345	216
45°	266	193
55°	60	64
65°	46	45
75°	26	28
85°	6	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	423
2.5°	420
5°	415
7.5°	412
10°	409
12.5°	403
15°	397
17.5°	393
20°	388
22.5°	382
25°	374
27.5°	367
30°	361
32.5°	354
35°	345
37.5°	335
40°	325
42.5°	309
45°	266
47.5°	201
50°	134
52.5°	82
55°	60
57.5°	55
60°	52
62.5°	49
65°	46
67.5°	42
70°	37
72.5°	32
75°	26
77.5°	21
80°	15
82.5°	10
85°	6
87.5°	2
90°	0

(END OF REPORT)