

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: P20234

Luminaire Tested: **ML709835T120DEM – 494WB06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20234
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20234)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709835T120DEM – 494WB06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN TRIM REFLECTOR
Light Source: HIGH OUTPUT LED
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 563 (1 lamp)
Luminaire Lumens: 563.1 lumens
Efficiency: 100.0%
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

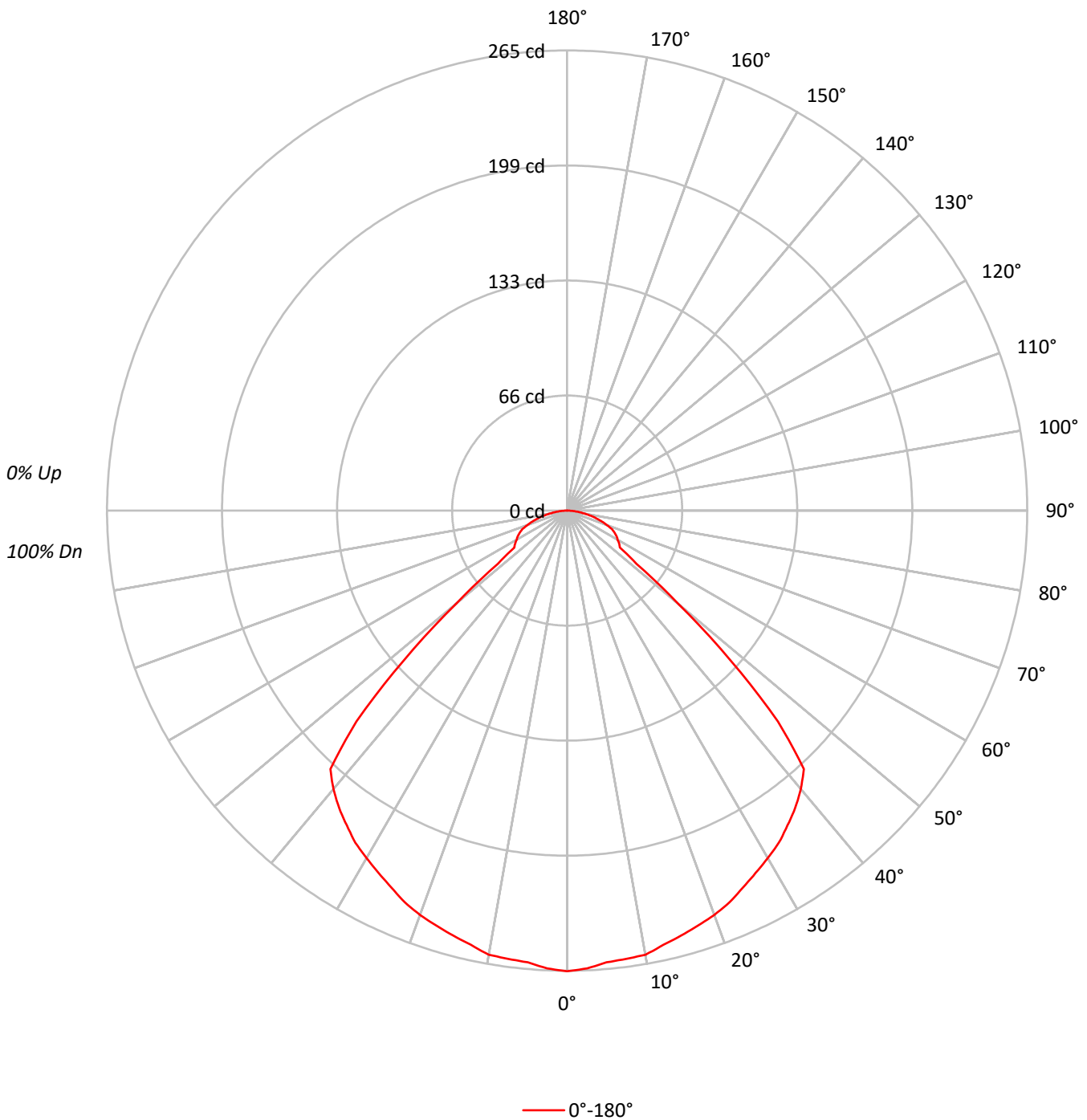
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P20234

CATALOG NUMBER: ML709835T120DEM – 494WB06 – H750TEM912

Luminous Intensity Polar Plot





TEST NUMBER: P20234

CATALOG NUMBER: ML709835T120DEM – 494WB06 – H750TEM912

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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	62	70	65	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14544
5°	14055
10°	13835
15°	13463
20°	13230
25°	12949
30°	12754
35°	12569
40°	12347
45°	10610
50°	5476
55°	2600
60°	2556
65°	2525
70°	2310
75°	1900
80°	1356
85°	676



TEST NUMBER: P20234

CATALOG NUMBER: ML709835T120DEM – 494WB06 – H750TEM912

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.9	4.4	4.4
10°-20°	71.7	12.7	12.7
20°-30°	110.7	19.7	19.7
30°-40°	138.6	24.6	24.6
40°-50°	124.0	22.0	22.0
50°-60°	40.4	7.2	7.2
60°-70°	29.5	5.2	5.2
70°-80°	18.5	3.3	3.3
80°-90°	4.9	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°	207.3	36.8	36.8
0°-40°	345.9	61.4	61.4
0°-60°	510.3	90.6	90.6
0°-90°	563.1	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°	563.1	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	265	
5°	261	25
15°	253	72
25°	240	111
35°	221	139
45°	172	124
55°	37	40
65°	30	30
75°	18	18
85°	4	5
90°	0	



TEST NUMBER: P20234

CATALOG NUMBER: ML709835T120DEM – 494WB06 – H750TEM912

CANDELA DISTRIBUTION (FULL):

0°	
0°	265.3
2.5°	263.9
5°	261.1
7.5°	260.4
10°	259.7
12.5°	256.2
15°	253.4
17.5°	250.6
20°	247.8
22.5°	244.3
25°	239.5
27.5°	235.2
30°	231.1
32.5°	226.9
35°	221.3
37.5°	215.8
40°	209.4
42.5°	201.8
45°	171.7
47.5°	127.8
50°	83.7
52.5°	50.3
55°	37.1
57.5°	35.6
60°	33.6
62.5°	32.1
65°	30.1
67.5°	27.9
70°	24.5
72.5°	21.0
75°	17.5
77.5°	14.0
80°	10.5
82.5°	7.0
85°	4.2
87.5°	1.4
90°	0.0

(END OF REPORT)