

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: **ML709830T120DEM – 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: ML709830T120DEM – 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: 515 (1 lamp)
Luminaire Lumens: 515.1 lumens
Efficiency: 100.0%
Efficacy: 55.4 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

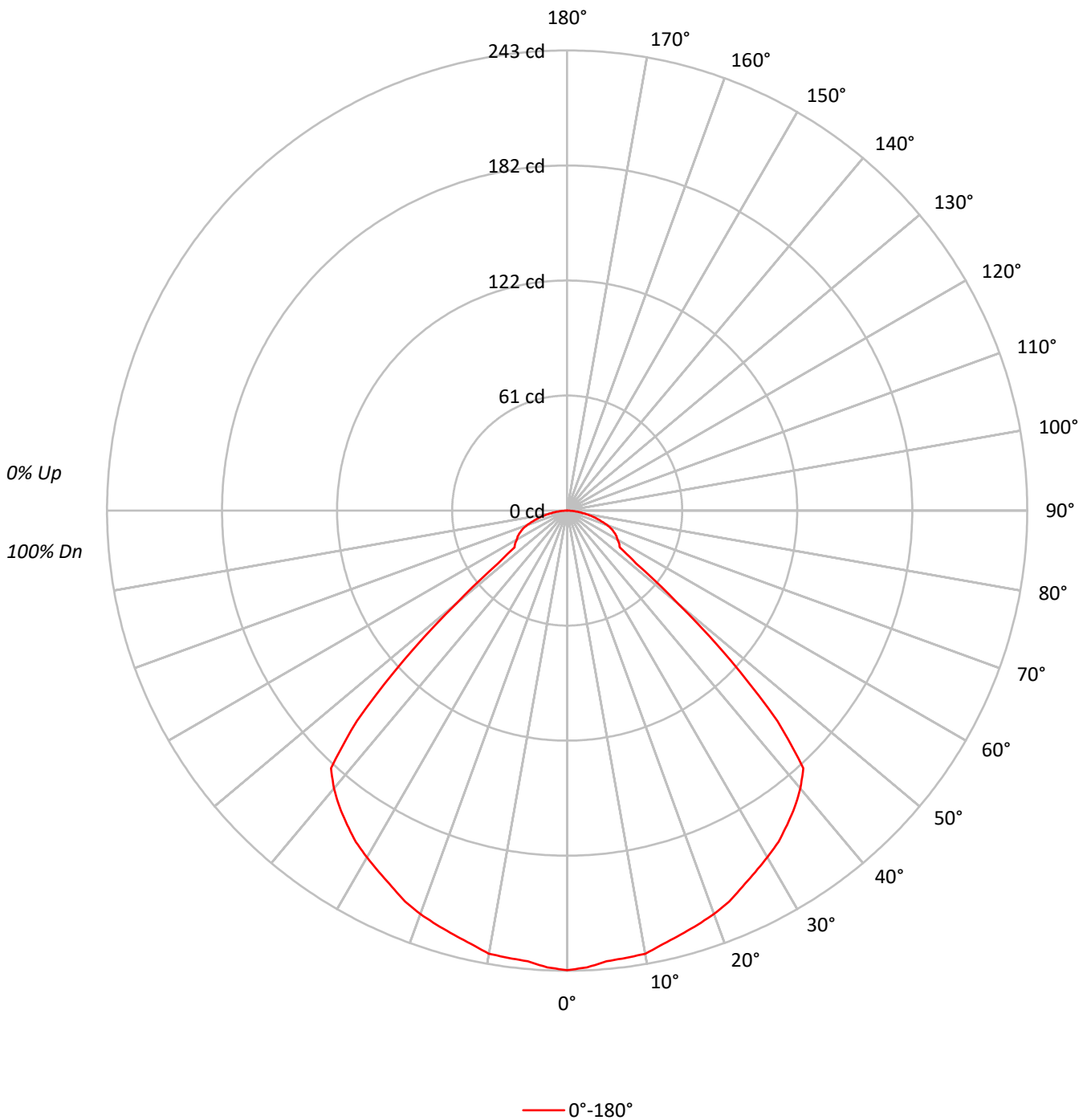
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	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	63	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	48
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°	13305
5°	12860
10°	12658
15°	12315
20°	12104
25°	11846
30°	11667
35°	11501
40°	11297
45°	9708
50°	5012
55°	2376
60°	2336
65°	2307
70°	2112
75°	1738
80°	1240
85°	611



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	22.8	4.4	4.4
10°-20°	65.6	12.7	12.7
20°-30°	101.3	19.7	19.7
30°-40°	126.8	24.6	24.6
40°-50°	113.5	22.0	22.0
50°-60°	36.9	7.2	7.2
60°-70°	27.0	5.2	5.2
70°-80°	16.9	3.3	3.3
80°-90°	4.4	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°	189.6	36.8	36.8
0°-40°	316.4	61.4	61.4
0°-60°	466.8	90.6	90.6
0°-90°	515.1	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°	515.1	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	243	
5°	239	23
15°	232	66
25°	219	101
35°	202	127
45°	157	113
55°	34	37
65°	28	27
75°	16	17
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	242.7
2.5°	241.4
5°	238.9
7.5°	238.2
10°	237.6
12.5°	234.4
15°	231.8
17.5°	229.3
20°	226.7
22.5°	223.5
25°	219.1
27.5°	215.2
30°	211.4
32.5°	207.6
35°	202.5
37.5°	197.4
40°	191.6
42.5°	184.6
45°	157.1
47.5°	116.9
50°	76.6
52.5°	46.0
55°	33.9
57.5°	32.6
60°	30.7
62.5°	29.4
65°	27.5
67.5°	25.5
70°	22.4
72.5°	19.2
75°	16.0
77.5°	12.8
80°	9.6
82.5°	6.4
85°	3.8
87.5°	1.3
90°	0.0

(END OF REPORT)