

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: P20232

Luminaire Tested: **ML709830T120DEM – 494SC06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20232
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20232)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML709830T120DEM – 494SC06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR TRIM
Light Source: HIGHT OUTPUT LED
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 549 (1 lamp)
Luminaire Lumens: 548.8 lumens
Efficiency: 100.0%
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.4
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

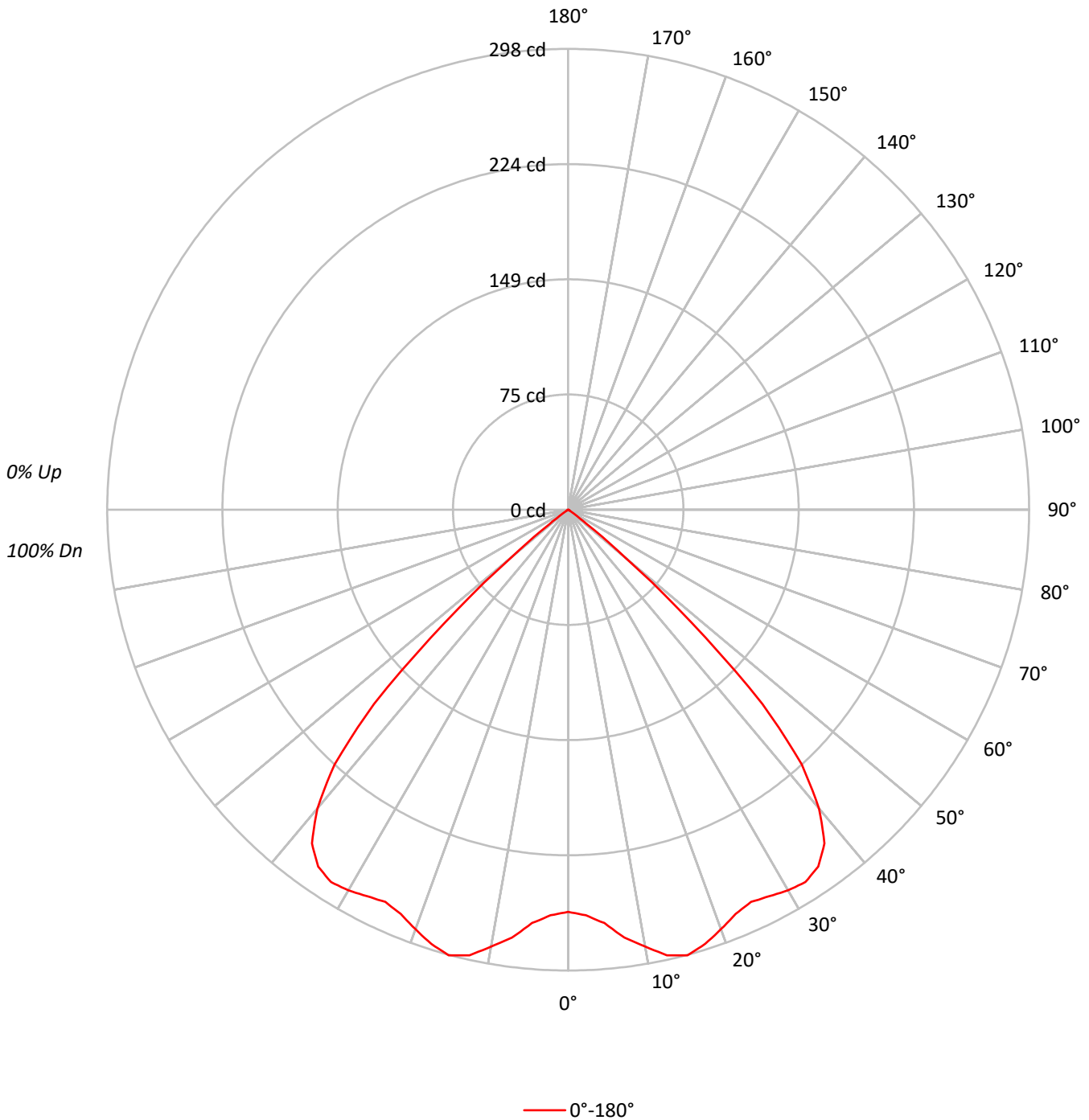
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71		78	73	70		76	72	69	67
5	86	77	70	64	85	76	69	64	74	68	64		72	67	63		70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	76	65	57	52	74	64	57	52	62	56	52		61	56	52		60	55	51	50
8	71	60	52	48	69	59	52	47	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	41
10	62	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14253
5°	14443
10°	15279
15°	15848
20°	15414
25°	15128
30°	15684
35°	15999
40°	14877
45°	10974
50°	3134
55°	91
60°	46
65°	50
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	26.3	4.8	4.8
10°-20°	83.3	15.2	15.2
20°-30°	130.8	23.8	23.8
30°-40°	173.6	31.6	31.6
40°-50°	125.3	22.8	22.8
50°-60°	8.9	1.6	1.6
60°-70°	0.5	0.1	0.1
70°-80°	0.0	0.0	0.0
80°-90°	0.0	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°	240.4	43.8	43.8
0°-40°	414.0	75.4	75.4
0°-60°	548.3	99.9	99.9
0°-90°	548.8	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°	548.8	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	260	
5°	268	26
15°	298	83
25°	280	131
35°	282	174
45°	178	125
55°	1	9
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	260.0
2.5°	262.5
5°	268.3
7.5°	279.1
10°	286.8
12.5°	295.1
15°	298.3
17.5°	294.4
20°	288.7
22.5°	282.9
25°	279.8
27.5°	281.7
30°	284.2
32.5°	285.5
35°	281.7
37.5°	272.1
40°	252.3
42.5°	223.5
45°	177.6
47.5°	107.9
50°	47.9
52.5°	15.3
55°	1.3
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)