

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: P20228

Luminaire Tested: **ML709827T120DEM – 493WBS06 – H750TEM912**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20228  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20228)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML709827T120DEM – 493WBS06 – H750TEM912  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN  
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND  
SOLITE GLASS LENS WITH MODULE  
Light Source: HIGH OUTPUT LED  
Ballast/Driver: IOTA BATTERY PACK

**Summary**

Lumens per Lamp: 459 (1 lamp)  
Luminaire Lumens: 459.4 lumens  
Efficiency: 100.1%  
Efficacy: 49.4 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.97  
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')  
CIE Type: Direct

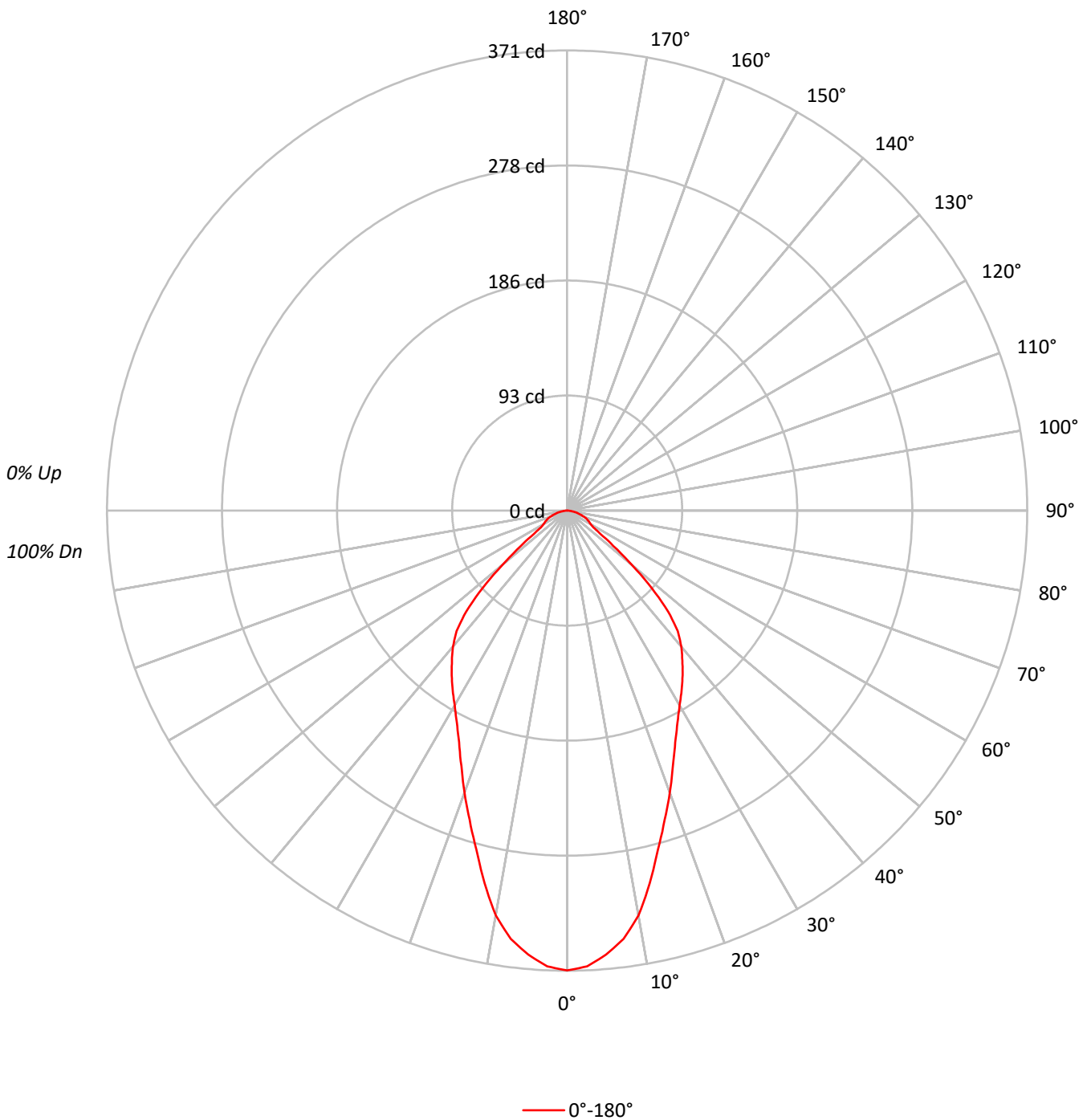
Input Watts (W): 9.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	77	72	67	75	70	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	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	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	20322
5°	19347
10°	17660
15°	15025
20°	12915
25°	11143
30°	10000
35°	9212
40°	8444
45°	7125
50°	4475
55°	2292
60°	1674
65°	1544
70°	1339
75°	1032
80°	685
85°	386



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	33.5	7.3	7.3
10°-20°	79.4	17.3	17.3
20°-30°	95.6	20.8	20.8
30°-40°	101.4	22.1	22.1
40°-50°	85.5	18.6	18.6
50°-60°	33.2	7.2	7.2
60°-70°	18.2	4.0	4.0
70°-80°	10.2	2.2	2.2
80°-90°	2.5	0.5	0.5
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°	208.4	45.4	45.4
0°-40°	309.8	67.4	67.5
0°-60°	428.5	93.3	93.4
0°-90°	459.4	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°	459.4	100.0	100.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	371	
5°	359	33
15°	283	79
25°	206	96
35°	162	101
45°	115	85
55°	33	33
65°	18	18
75°	10	10
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	370.7
2.5°	367.8
5°	359.4
7.5°	348.2
10°	331.5
12.5°	307.7
15°	282.8
17.5°	261.4
20°	241.9
22.5°	222.8
25°	206.1
27.5°	192.5
30°	181.2
32.5°	171.7
35°	162.2
37.5°	152.6
40°	143.2
42.5°	131.9
45°	115.3
47.5°	92.6
50°	68.4
52.5°	47.0
55°	32.7
57.5°	24.9
60°	22.0
62.5°	20.2
65°	18.4
67.5°	16.7
70°	14.2
72.5°	11.9
75°	9.5
77.5°	7.7
80°	5.3
82.5°	3.5
85°	2.4
87.5°	0.6
90°	0.0

(END OF REPORT)