

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: **ML712827TUNVD010EM – 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: ML712827TUNVD010EM – 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: 484 (1 lamp)  
Luminaire Lumens: 484.0 lumens  
Efficiency: 100.0%  
Efficacy: 52.0 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

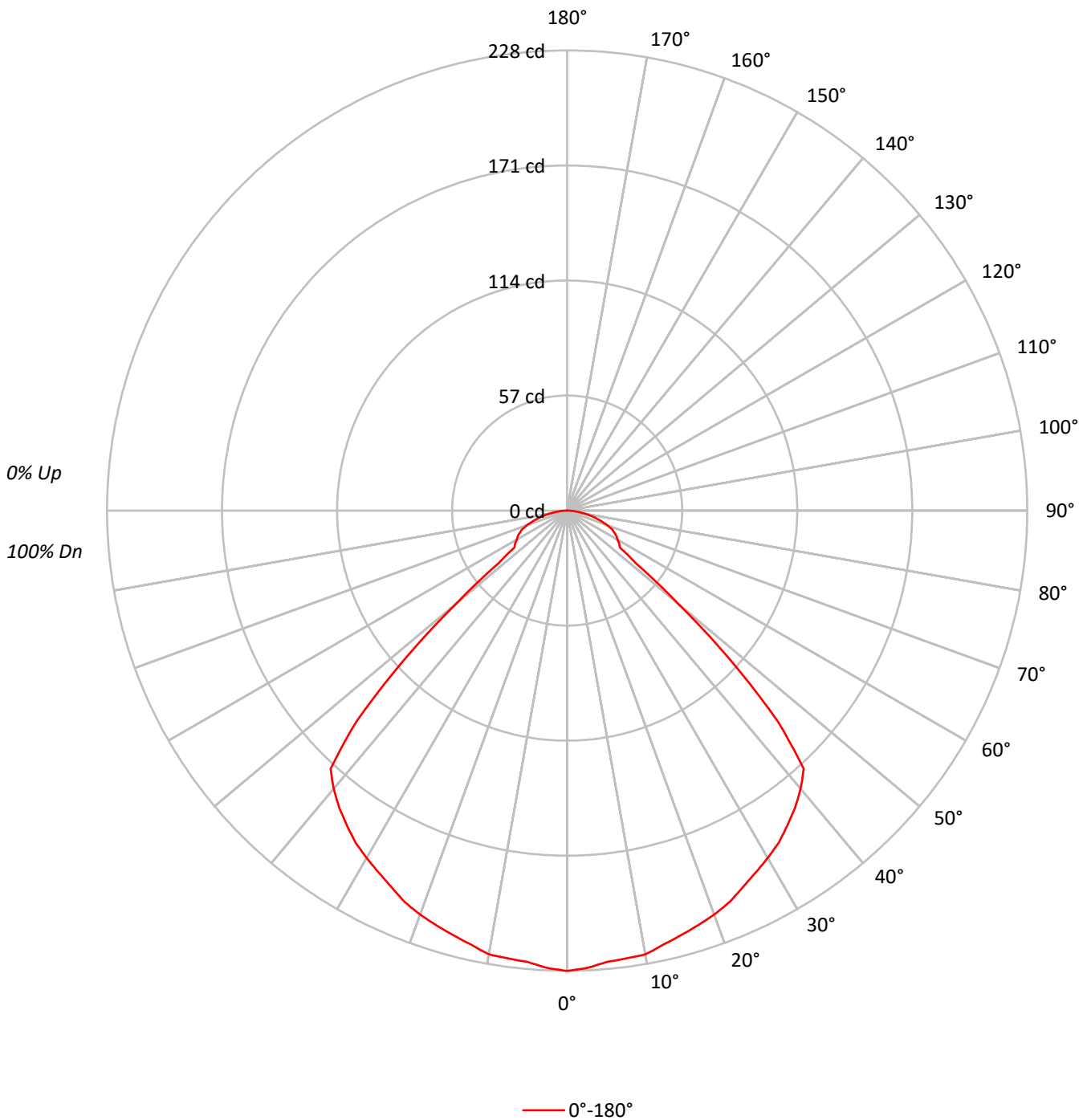
Input Watts (W): 9.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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°	12504
5°	12085
10°	11896
15°	11571
20°	11372
25°	11132
30°	10966
35°	10808
40°	10613
45°	9121
50°	4711
55°	2236
60°	2191
65°	2165
70°	1980
75°	1629
80°	1162
85°	579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	21.4	4.4	4.4
10°-20°	61.6	12.7	12.7
20°-30°	95.1	19.7	19.7
30°-40°	119.2	24.6	24.6
40°-50°	106.6	22.0	22.0
50°-60°	34.7	7.2	7.2
60°-70°	25.3	5.2	5.2
70°-80°	15.8	3.3	3.3
80°-90°	4.2	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°	178.2	36.8	36.8
0°-40°	297.4	61.4	61.4
0°-60°	438.7	90.6	90.6
0°-90°	484.0	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°	484.0	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	228	
5°	224	21
15°	218	62
25°	206	95
35°	190	119
45°	148	107
55°	32	35
65°	26	25
75°	15	16
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	228.1
2.5°	226.8
5°	224.5
7.5°	223.8
10°	223.3
12.5°	220.3
15°	217.8
17.5°	215.5
20°	213.0
22.5°	210.0
25°	205.9
27.5°	202.2
30°	198.7
32.5°	195.1
35°	190.3
37.5°	185.5
40°	180.0
42.5°	173.5
45°	147.6
47.5°	109.9
50°	72.0
52.5°	43.2
55°	31.9
57.5°	30.6
60°	28.8
62.5°	27.6
65°	25.8
67.5°	24.0
70°	21.0
72.5°	18.0
75°	15.0
77.5°	12.0
80°	9.0
82.5°	6.0
85°	3.6
87.5°	1.2
90°	0.0

(END OF REPORT)