

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: P20175

Luminaire Tested: **ML712840TUNVD010-494P06**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20175  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML712840TUNVD010-494P06  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE PAINTED TRIM  
REFLECTOR WITH MODULE ML712840TUNVD010  
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE  
24 WATTS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: 1427 (1 lamp)  
Luminaire Lumens: 1427.3 lumens  
Efficiency: 100.0%  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.36  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

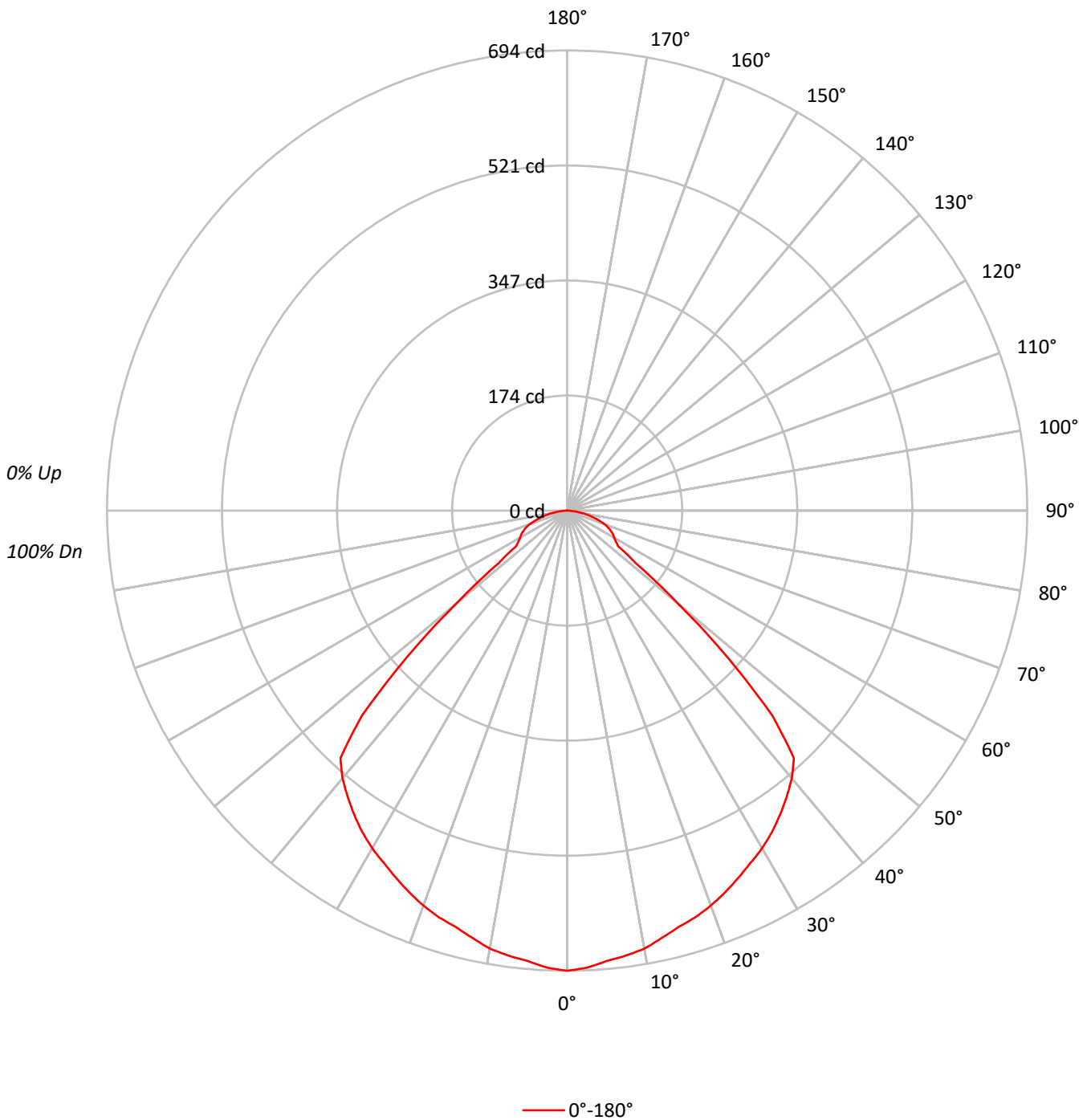
Input Watts (W): 26.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	38045
5°	37530
10°	37352
15°	36890
20°	36987
25°	36958
30°	37221
35°	37477
40°	37714
45°	33957
50°	18763
55°	8984
60°	8991
65°	9469
70°	9617
75°	8896
80°	7892
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	64.8	4.5	4.5
10°-20°	184.1	12.9	12.9
20°-30°	282.2	19.8	19.8
30°-40°	350.5	24.6	24.6
40°-50°	315.6	22.1	22.1
50°-60°	102.8	7.2	7.2
60°-70°	71.6	5.0	5.0
70°-80°	44.4	3.1	3.1
80°-90°	11.3	0.8	0.8
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°	531.1	37.2	37.2
0°-40°	881.6	61.8	61.8
0°-60°	1300.0	91.1	91.1
0°-90°	1427.3	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°	1427.3	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	694	
5°	682	65
15°	650	184
25°	611	282
35°	560	350
45°	438	316
55°	94	103
65°	73	72
75°	42	44
85°	9	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	694
2.5°	690
5°	682
7.5°	677
10°	671
12.5°	660
15°	650
17.5°	643
20°	634
22.5°	623
25°	611
27.5°	599
30°	588
32.5°	575
35°	560
37.5°	544
40°	527
42.5°	506
45°	438
47.5°	330
50°	220
52.5°	131
55°	94
57.5°	87
60°	82
62.5°	78
65°	73
67.5°	67
70°	60
72.5°	51
75°	42
77.5°	33
80°	25
82.5°	17
85°	9
87.5°	3
90°	0

(END OF REPORT)