

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: P20163

Luminaire Tested: **ML712827TUNVD010-494P06**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20163  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML712827TUNVD010-494P06  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE PAINTED TRIM  
REFLECTOR WITH MODULE ML712827TUNVD010  
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE  
(1)24 WATTS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: 1325 (1 lamp)  
Luminaire Lumens: 1325.9 lumens  
Efficiency: 100.1%  
Efficacy: 50.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

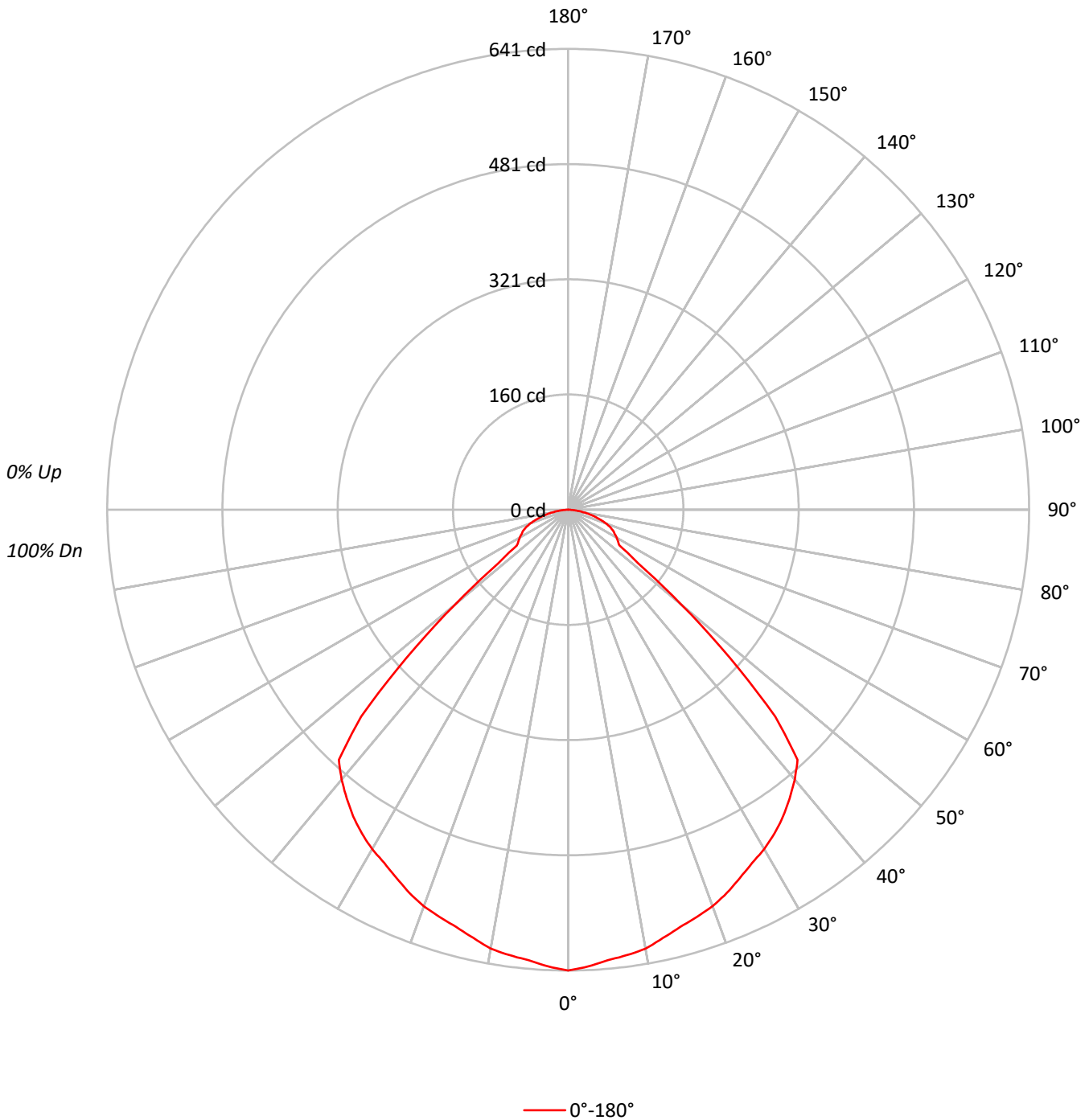
Input Watts (W): 26.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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	62	57	68	61	56		66	60	56		64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50		60	54	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	49	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	37	61	50	42	37	48	42	37		47	41	37		46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

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

	0°
0°	35140
5°	34614
10°	34513
15°	34109
20°	34245
25°	34175
30°	34499
35°	34867
40°	35066
45°	31554
50°	17483
55°	8315
60°	8552
65°	8950
70°	8976
75°	8261
80°	7261
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.8	4.5	4.5
10°-20°	170.2	12.8	12.8
20°-30°	261.2	19.7	19.7
30°-40°	325.8	24.6	24.6
40°-50°	293.3	22.1	22.1
50°-60°	96.3	7.3	7.3
60°-70°	67.4	5.1	5.1
70°-80°	41.5	3.1	3.1
80°-90°	10.5	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°	491.2	37.0	37.1
0°-40°	817.0	61.6	61.7
0°-60°	1206.5	91.0	91.1
0°-90°	1325.9	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°	1325.9	100.0	100.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	641	
5°	629	60
15°	601	170
25°	565	261
35°	521	326
45°	407	293
55°	87	96
65°	69	67
75°	39	42
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	641
2.5°	636
5°	629
7.5°	625
10°	620
12.5°	610
15°	601
17.5°	594
20°	587
22.5°	577
25°	565
27.5°	554
30°	545
32.5°	534
35°	521
37.5°	506
40°	490
42.5°	472
45°	407
47.5°	305
50°	205
52.5°	123
55°	87
57.5°	82
60°	78
62.5°	73
65°	69
67.5°	63
70°	56
72.5°	48
75°	39
77.5°	31
80°	23
82.5°	15
85°	9
87.5°	3
90°	0

(END OF REPORT)