

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: P20164

Luminaire Tested: **ML712827TUNVD010-494WB06**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20164  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML712827TUNVD010-494WB06  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN TRIM  
REFLECTOR WITH MODULE ML712827TUNVD010  
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE  
(1)24 WATTS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

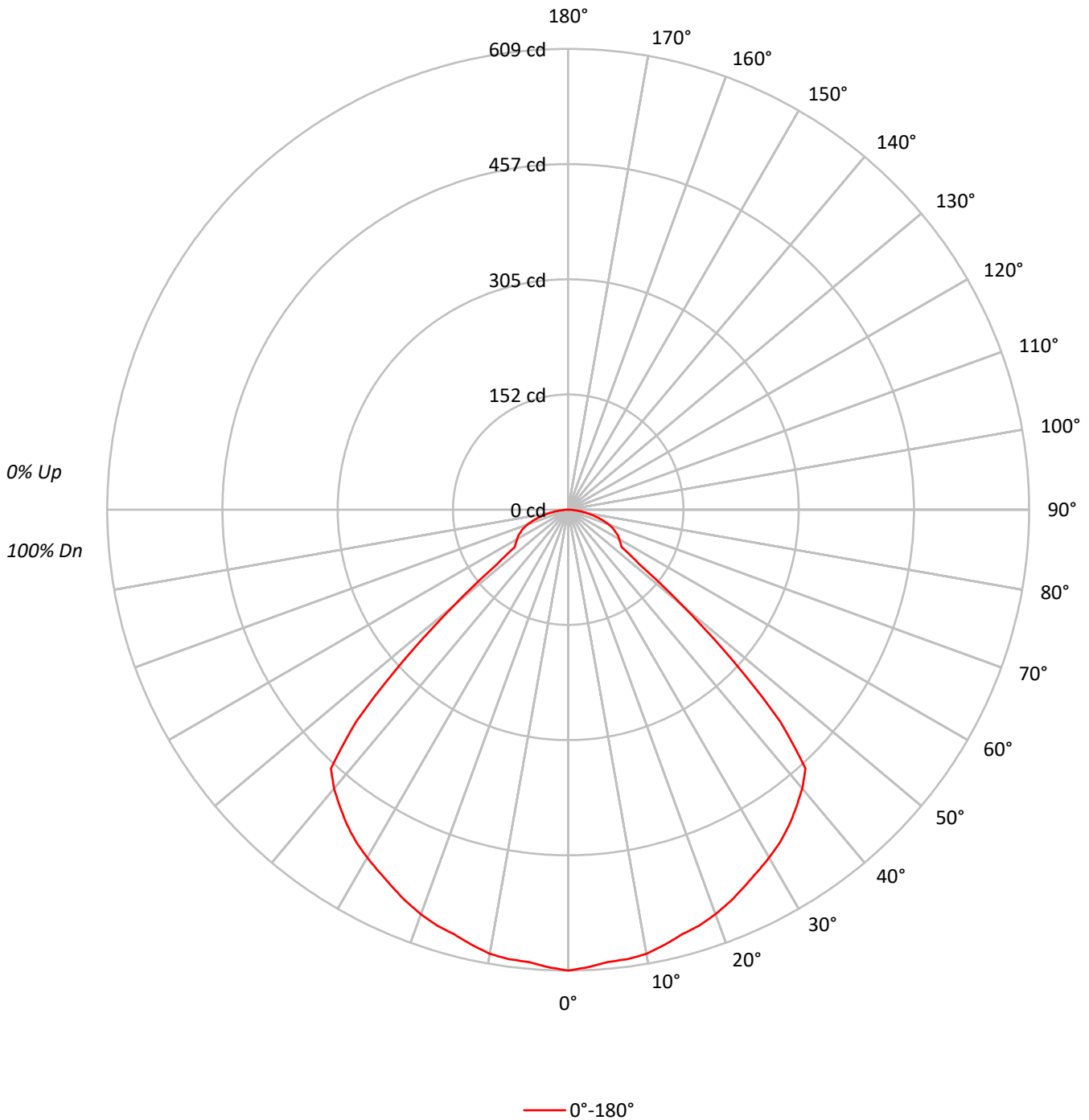
Lumens per Lamp: 1296 (1 lamp)  
Luminaire Lumens: 1296.7 lumens  
Efficiency: 100.1%  
Efficacy: 48.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.38  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P20164  
CATALOG NUMBER: ML712827TUNVD010-494WB06

### Luminous Intensity Polar Plot





TEST NUMBER: P20164

CATALOG NUMBER: ML712827TUNVD010-494WB06

**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	50	62	55	50		60	54	50		59	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	49	44	43
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40	38
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	37	33	32

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

	0°
0°	33385
5°	33018
10°	33177
15°	32974
20°	33195
25°	33268
30°	33613
35°	34064
40°	34422
45°	30701
50°	16716
55°	8220
60°	8552
65°	8950
70°	9136
75°	8684
80°	7577
85°	6290



TEST NUMBER: P20164

CATALOG NUMBER: ML712827TUNVD010-494WB06

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	57.2	4.4	4.4
10°-20°	164.6	12.7	12.7
20°-30°	254.1	19.6	19.6
30°-40°	318.3	24.5	24.6
40°-50°	285.9	22.1	22.1
50°-60°	94.0	7.2	7.3
60°-70°	68.0	5.2	5.2
70°-80°	42.8	3.3	3.3
80°-90°	11.7	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°	475.9	36.7	36.7
0°-40°	794.3	61.3	61.3
0°-60°	1174.2	90.6	90.6
0°-90°	1296.7	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°	1296.7	100.0	100.1

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	609	
5°	600	57
15°	581	165
25°	550	254
35°	509	318
45°	396	286
55°	86	94
65°	69	68
75°	41	43
85°	10	12
90°	0	



TEST NUMBER: P20164

CATALOG NUMBER: ML712827TUNVD010-494WB06

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	609
2.5°	605
5°	600
7.5°	599
10°	596
12.5°	589
15°	581
17.5°	576
20°	569
22.5°	560
25°	550
27.5°	540
30°	531
32.5°	521
35°	509
37.5°	495
40°	481
42.5°	464
45°	396
47.5°	295
50°	196
52.5°	118
55°	86
57.5°	82
60°	78
62.5°	74
65°	69
67.5°	64
70°	57
72.5°	49
75°	41
77.5°	32
80°	24
82.5°	17
85°	10
87.5°	4
90°	0

(END OF REPORT)