

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: P20152

Luminaire Tested: **ML712835TUNVD010-494P06**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P20152  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: ML712835TUNVD010-494P06  
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE PAINTED TRIM  
REFLECTOR WITH MODULE ML712835TUNVD010  
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE  
(1)24 WATTS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: 1438 (1 lamp)  
Luminaire Lumens: 1438.5 lumens  
Efficiency: 100.0%  
Efficacy: 54.5 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

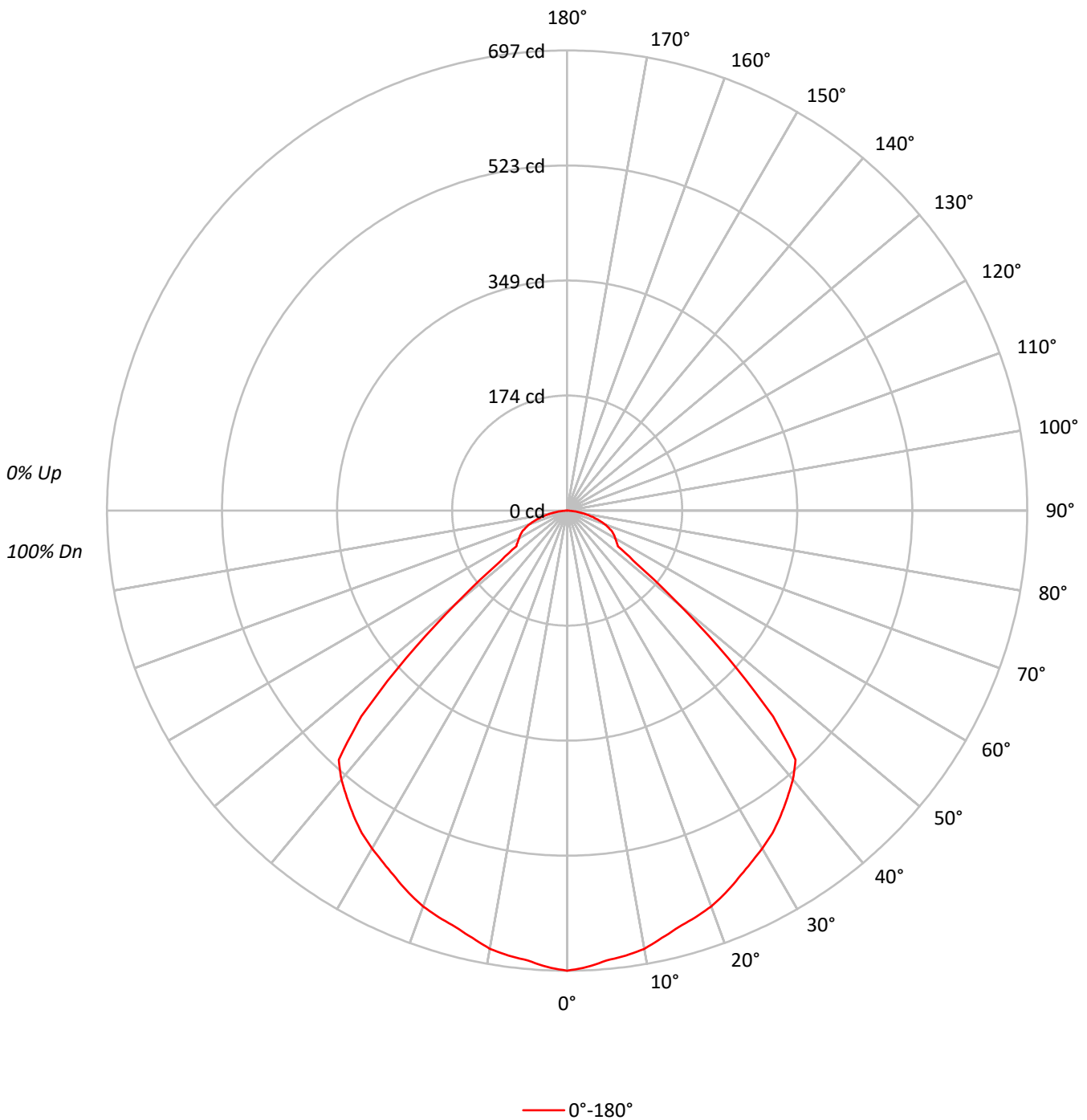
Input Watts (W): 26.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	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	38	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°	38210
5°	37640
10°	37519
15°	37060
20°	37220
25°	37139
30°	37411
35°	37745
40°	38071
45°	34190
50°	18763
55°	8984
60°	9210
65°	9729
70°	9777
75°	9108
80°	7892
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	65.1	4.5	4.5
10°-20°	185.0	12.9	12.9
20°-30°	283.7	19.7	19.7
30°-40°	353.0	24.5	24.5
40°-50°	317.9	22.1	22.1
50°-60°	104.0	7.2	7.2
60°-70°	73.2	5.1	5.1
70°-80°	45.4	3.2	3.2
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°	533.8	37.1	37.1
0°-40°	886.8	61.6	61.7
0°-60°	1308.7	91.0	91.0
0°-90°	1438.5	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°	1438.5	100.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	697	
5°	684	65
15°	653	185
25°	614	284
35°	564	353
45°	441	318
55°	94	104
65°	75	73
75°	43	45
85°	9	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	697
2.5°	692
5°	684
7.5°	680
10°	674
12.5°	663
15°	653
17.5°	646
20°	638
22.5°	627
25°	614
27.5°	602
30°	591
32.5°	579
35°	564
37.5°	548
40°	532
42.5°	512
45°	441
47.5°	331
50°	220
52.5°	133
55°	94
57.5°	89
60°	84
62.5°	80
65°	75
67.5°	68
70°	61
72.5°	52
75°	43
77.5°	34
80°	25
82.5°	17
85°	9
87.5°	3
90°	0

(END OF REPORT)