

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: P20177

Luminaire Tested: **ML712840TUNVD010-494H06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20177
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010-494H06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH HAZE FINISH 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: 1444 (1 lamp)
Luminaire Lumens: 1444.8 lumens
Efficiency: 100.1%
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.34
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

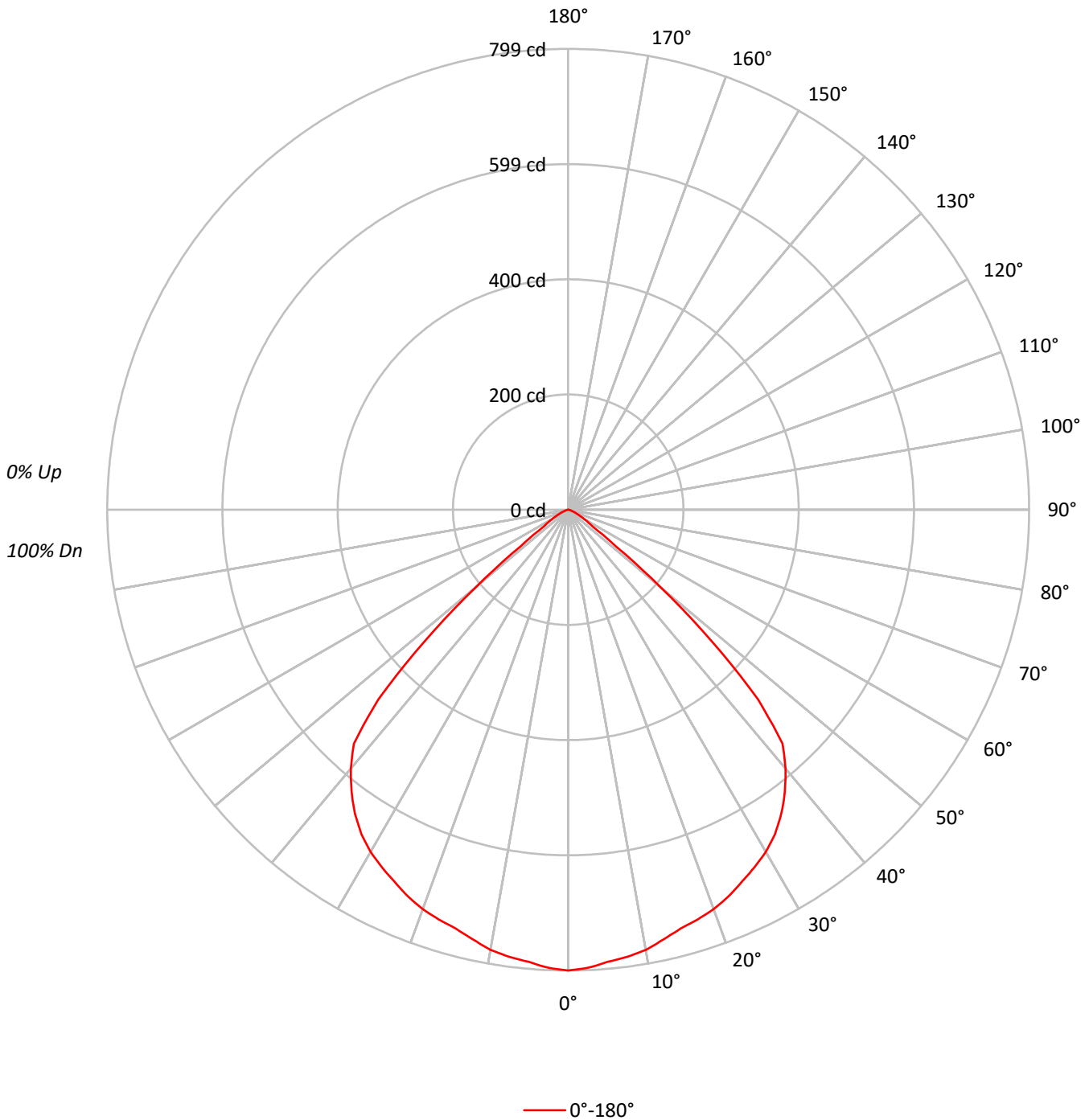
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43801
5°	43308
10°	43141
15°	42679
20°	42995
25°	43067
30°	43361
35°	43098
40°	41936
45°	36050
50°	17825
55°	5161
60°	3399
65°	2205
70°	1282
75°	635
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	74.8	5.2	5.2
10°-20°	213.2	14.8	14.8
20°-30°	328.8	22.8	22.8
30°-40°	401.4	27.8	27.8
40°-50°	334.5	23.2	23.2
50°-60°	70.2	4.9	4.9
60°-70°	17.6	1.2	1.2
70°-80°	3.8	0.3	0.3
80°-90°	0.4	0.0	0.0
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°	616.9	42.7	42.7
0°-40°	1018.2	70.5	70.5
0°-60°	1423.0	98.5	98.5
0°-90°	1444.8	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°	1444.8	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	799	
5°	787	75
15°	752	213
25°	712	329
35°	644	401
45°	465	335
55°	54	70
65°	17	18
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	799
2.5°	795
5°	787
7.5°	782
10°	775
12.5°	763
15°	752
17.5°	745
20°	737
22.5°	726
25°	712
27.5°	699
30°	685
32.5°	667
35°	644
37.5°	617
40°	586
42.5°	550
45°	465
47.5°	337
50°	209
52.5°	104
55°	54
57.5°	41
60°	31
62.5°	23
65°	17
67.5°	12
70°	8
72.5°	5
75°	3
77.5°	2
80°	1
82.5°	1
85°	0
87.5°	0
90°	0

(END OF REPORT)