

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: P20234

Luminaire Tested: **ML712840TUNVD010EM – 494WB06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20234
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20234)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010EM – 494WB06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN TRIM REFLECTOR
Light Source: HIGH OUTPUT LED
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 565 (1 lamp)
Luminaire Lumens: 565.5 lumens
Efficiency: 100.1%
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

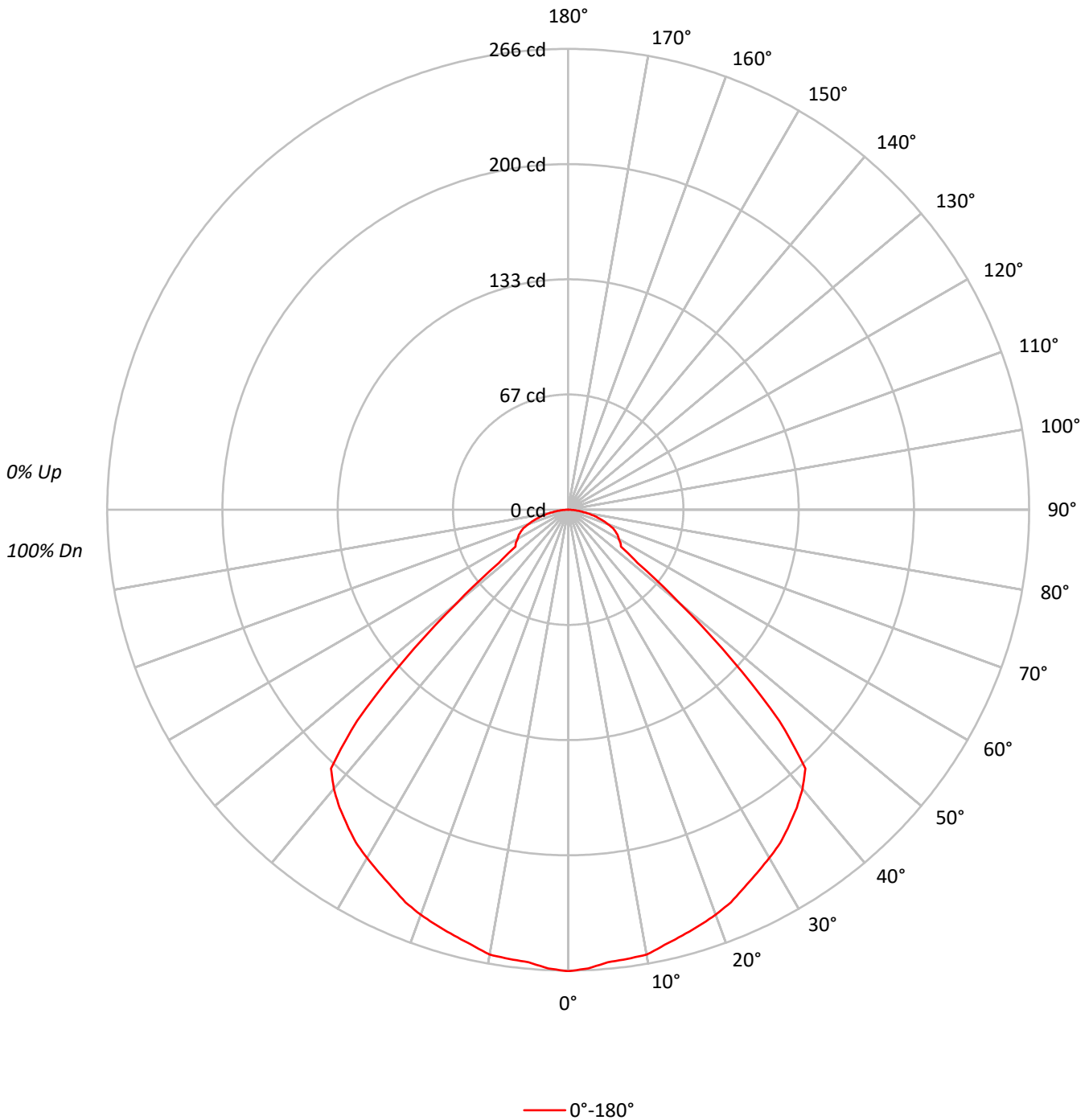
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	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	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	63		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	64	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41		51	45	41		50	44	40	39
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	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14604
5°	14114
10°	13894
15°	13516
20°	13283
25°	13003
30°	12809
35°	12626
40°	12400
45°	10653
50°	5503
55°	2607
60°	2564
65°	2534
70°	2320
75°	1911
80°	1356
85°	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.0	4.4	4.4
10°-20°	72.0	12.7	12.7
20°-30°	111.1	19.7	19.7
30°-40°	139.2	24.6	24.6
40°-50°	124.5	22.0	22.0
50°-60°	40.5	7.2	7.2
60°-70°	29.6	5.2	5.2
70°-80°	18.6	3.3	3.3
80°-90°	4.9	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°	208.1	36.8	36.8
0°-40°	347.4	61.4	61.5
0°-60°	512.4	90.6	90.7
0°-90°	565.5	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°	565.5	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	266	
5°	262	25
15°	254	72
25°	240	111
35°	222	139
45°	172	125
55°	37	41
65°	30	30
75°	18	19
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	266.4
2.5°	265.0
5°	262.2
7.5°	261.5
10°	260.8
12.5°	257.3
15°	254.4
17.5°	251.7
20°	248.8
22.5°	245.3
25°	240.5
27.5°	236.2
30°	232.1
32.5°	227.9
35°	222.3
37.5°	216.7
40°	210.3
42.5°	202.6
45°	172.4
47.5°	128.3
50°	84.1
52.5°	50.5
55°	37.2
57.5°	35.8
60°	33.7
62.5°	32.3
65°	30.2
67.5°	28.0
70°	24.6
72.5°	21.1
75°	17.6
77.5°	14.1
80°	10.5
82.5°	7.0
85°	4.2
87.5°	1.4
90°	0.0

(END OF REPORT)