

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: P20232

Luminaire Tested: **ML712827TUNVD010EM – 494SC06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20232
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20232)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712827TUNVD010EM – 494SC06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR TRIM
Light Source: HIGHT OUTPUT LED
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 511 (1 lamp)
Luminaire Lumens: 510.6 lumens
Efficiency: 99.9%
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.4
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

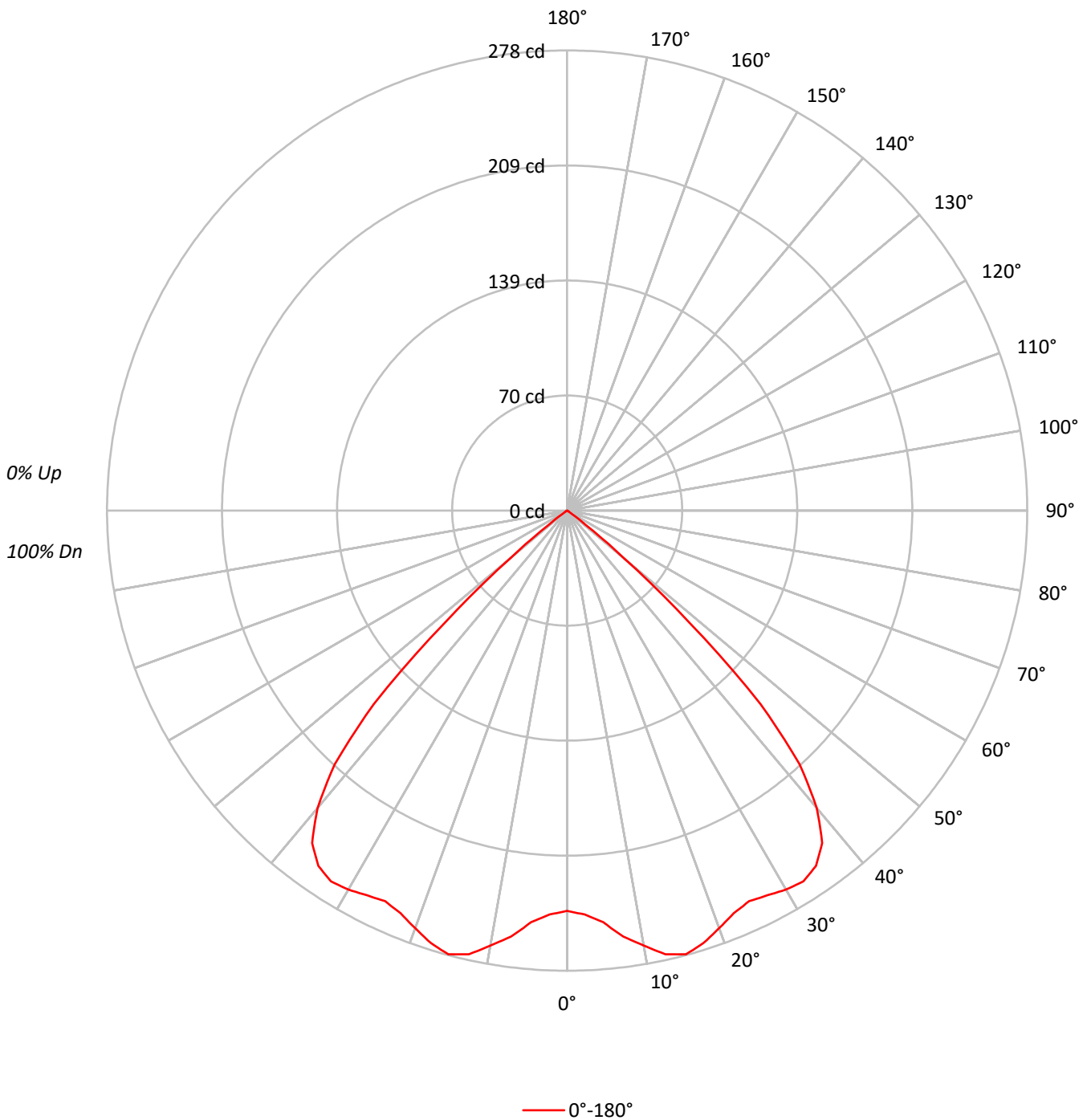
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	92	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	86	77	70	64	85	75	69	64	74	68	64	72	67	63	70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	57	52	74	64	57	52	62	56	52	61	56	52	60	55	51	50
8	71	60	52	48	69	59	52	47	58	52	47	57	51	47	56	50	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13261
5°	13436
10°	14213
15°	14743
20°	14335
25°	14074
30°	14591
35°	14881
40°	13839
45°	10208
50°	2918
55°	84
60°	46
65°	50
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	24.5	4.8	4.8
10°-20°	77.5	15.2	15.2
20°-30°	121.7	23.8	23.8
30°-40°	161.5	31.6	31.6
40°-50°	116.6	22.8	22.8
50°-60°	8.3	1.6	1.6
60°-70°	0.5	0.1	0.1
70°-80°	0.0	0.0	0.0
80°-90°	0.0	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°	223.6	43.8	43.8
0°-40°	385.1	75.4	75.4
0°-60°	510.0	99.9	99.8
0°-90°	510.6	100.0	99.9
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°	510.6	100.0	99.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	242	
5°	250	24
15°	278	78
25°	260	122
35°	262	161
45°	165	117
55°	1	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	241.9
2.5°	244.2
5°	249.6
7.5°	259.6
10°	266.8
12.5°	274.5
15°	277.5
17.5°	273.9
20°	268.5
22.5°	263.2
25°	260.3
27.5°	262.0
30°	264.4
32.5°	265.6
35°	262.0
37.5°	253.1
40°	234.7
42.5°	207.9
45°	165.2
47.5°	100.4
50°	44.6
52.5°	14.2
55°	1.2
57.5°	0.6
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)