

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: P20228

Luminaire Tested: **ML712830TUNVD010EM – 493WBS06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20228
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20228)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010EM – 493WBS06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH WHITE BAFFLED DESIGN
LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND
SOLITE GLASS LENS WITH MODULE
Light Source: HIGH OUTPUT LED
Ballast/Driver: IOTA BATTERY PACK

Summary

Lumens per Lamp: 494 (1 lamp)
Luminaire Lumens: 493.8 lumens
Efficiency: 100.0%
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.97
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

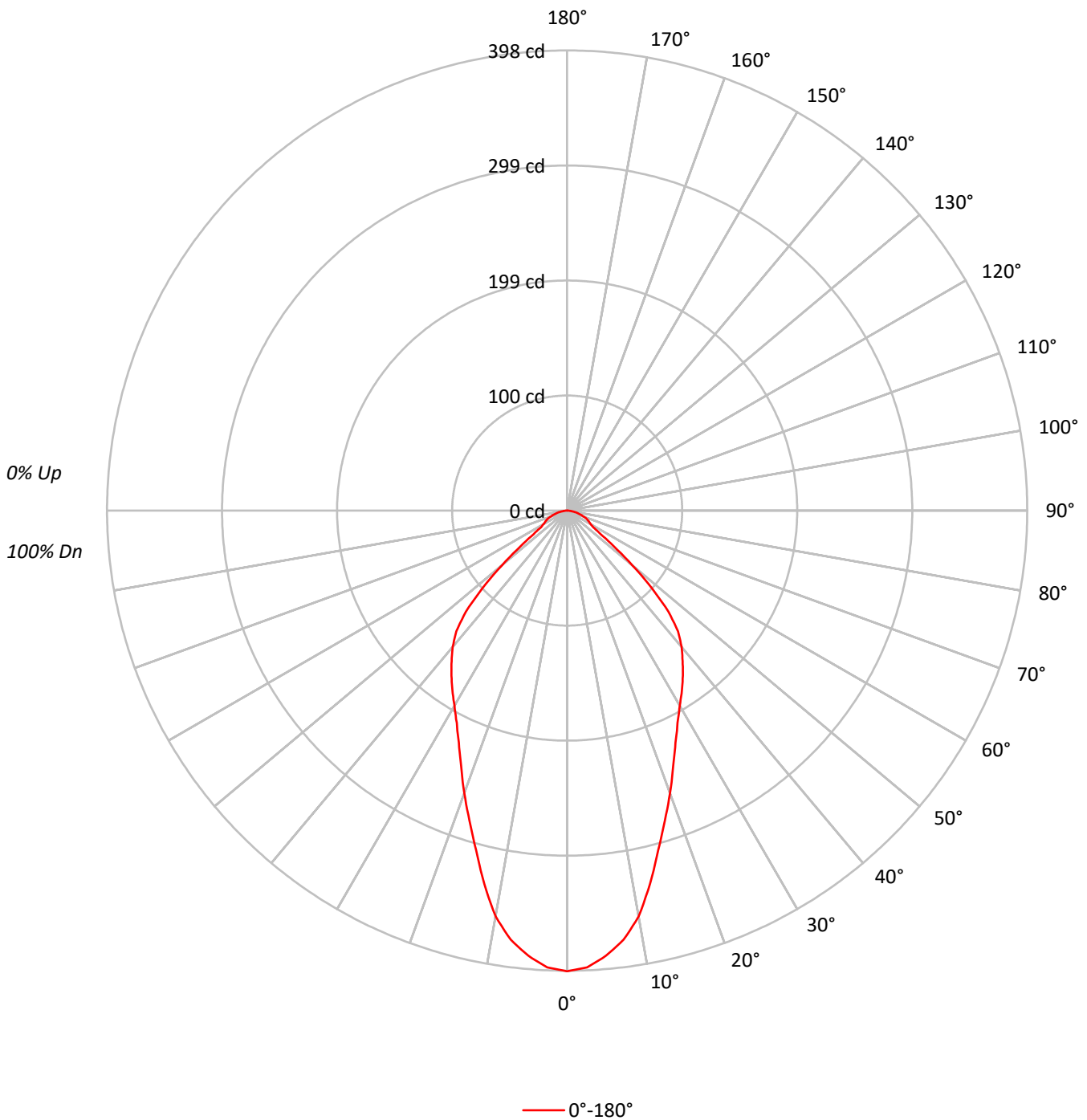
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	98	93	88	102	96	91	87	93	89	85	89	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	85	79	75	82	78	74	80	76	73	71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21846
5°	20800
10°	18987
15°	16151
20°	13881
25°	11981
30°	10750
35°	9905
40°	9074
45°	7656
50°	4809
55°	2460
60°	1796
65°	1661
70°	1443
75°	1108
80°	736
85°	418



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.0	7.3	7.3
10°-20°	85.3	17.3	17.3
20°-30°	102.7	20.8	20.8
30°-40°	109.0	22.1	22.1
40°-50°	91.9	18.6	18.6
50°-60°	35.7	7.2	7.2
60°-70°	19.5	4.0	4.0
70°-80°	11.0	2.2	2.2
80°-90°	2.7	0.5	0.5
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°	224.0	45.4	45.3
0°-40°	333.1	67.4	67.4
0°-60°	460.6	93.3	93.2
0°-90°	493.8	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°	493.8	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	398	
5°	386	36
15°	304	85
25°	222	103
35°	174	109
45°	124	92
55°	35	36
65°	20	20
75°	10	11
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	398.5
2.5°	395.4
5°	386.4
7.5°	374.3
10°	356.4
12.5°	330.8
15°	304.0
17.5°	281.0
20°	260.0
22.5°	239.5
25°	221.6
27.5°	206.9
30°	194.8
32.5°	184.6
35°	174.4
37.5°	164.1
40°	153.9
42.5°	141.8
45°	123.9
47.5°	99.6
50°	73.5
52.5°	50.5
55°	35.1
57.5°	26.8
60°	23.6
62.5°	21.7
65°	19.8
67.5°	17.9
70°	15.3
72.5°	12.8
75°	10.2
77.5°	8.3
80°	5.7
82.5°	3.8
85°	2.6
87.5°	0.6
90°	0.0

(END OF REPORT)