

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: **ML712835TUNVD010EM – 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: ML712835TUNVD010EM – 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: 540 (1 lamp)
Luminaire Lumens: 539.8 lumens
Efficiency: 100.0%
Efficacy: 58.0 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

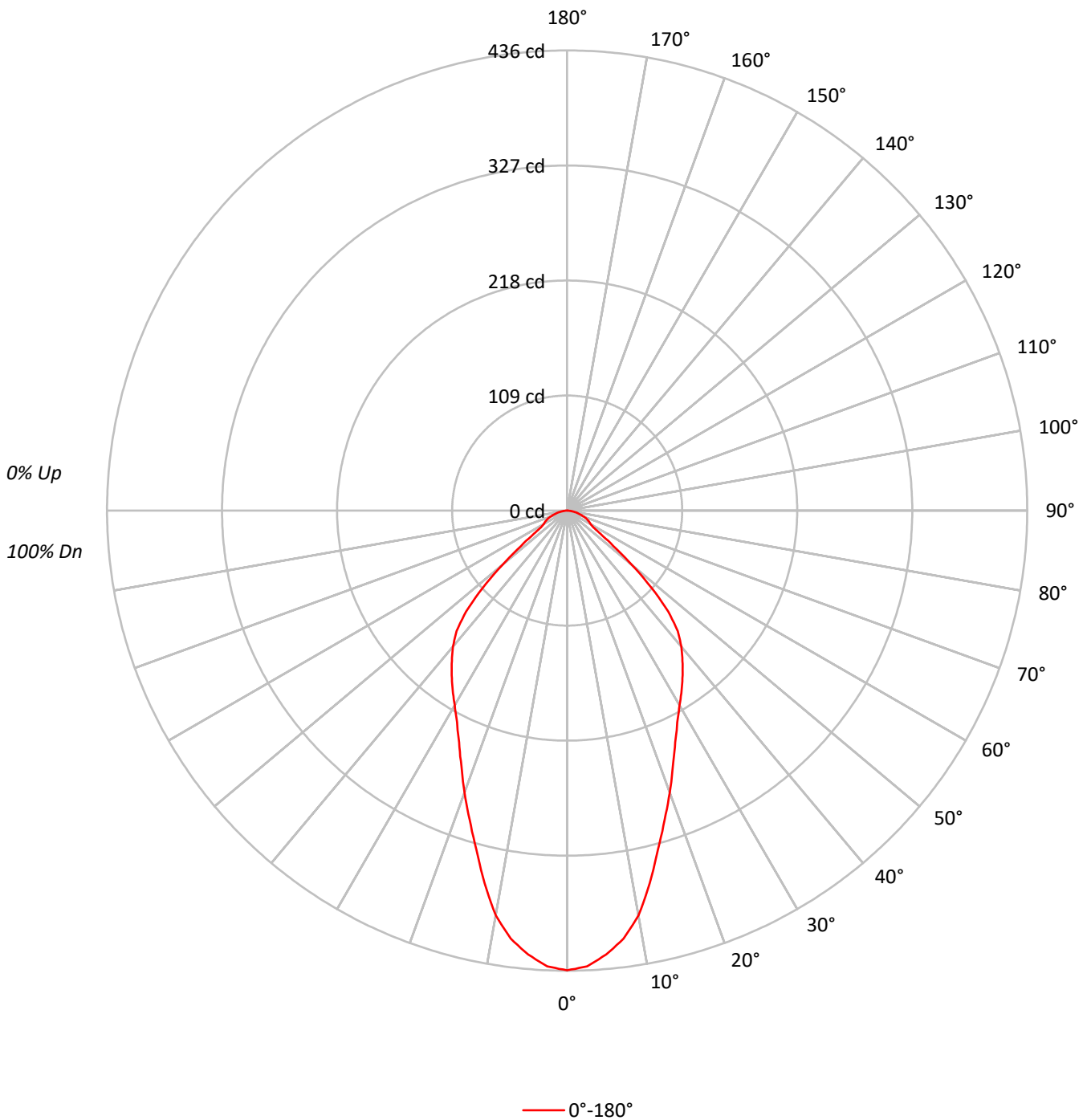
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	84	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	60	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	54	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°	23880
5°	22733
10°	20750
15°	17655
20°	15173
25°	13095
30°	11749
35°	10825
40°	9918
45°	8367
50°	5254
55°	2691
60°	1963
65°	1812
70°	1575
75°	1205
80°	801
85°	450



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	39.3	7.3	7.3
10°-20°	93.3	17.3	17.3
20°-30°	112.3	20.8	20.8
30°-40°	119.2	22.1	22.1
40°-50°	100.4	18.6	18.6
50°-60°	39.0	7.2	7.2
60°-70°	21.3	4.0	3.9
70°-80°	12.0	2.2	2.2
80°-90°	2.9	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°	244.9	45.4	45.3
0°-40°	364.0	67.4	67.4
0°-60°	503.5	93.3	93.2
0°-90°	539.8	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°	539.8	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	436	
5°	422	39
15°	332	93
25°	242	112
35°	191	119
45°	135	100
55°	38	39
65°	22	21
75°	11	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	435.6
2.5°	432.2
5°	422.3
7.5°	409.1
10°	389.5
12.5°	361.6
15°	332.3
17.5°	307.1
20°	284.2
22.5°	261.8
25°	242.2
27.5°	226.1
30°	212.9
32.5°	201.8
35°	190.6
37.5°	179.4
40°	168.2
42.5°	155.0
45°	135.4
47.5°	108.9
50°	80.3
52.5°	55.2
55°	38.4
57.5°	29.3
60°	25.8
62.5°	23.7
65°	21.6
67.5°	19.6
70°	16.7
72.5°	14.0
75°	11.1
77.5°	9.1
80°	6.2
82.5°	4.2
85°	2.8
87.5°	0.7
90°	0.0

(END OF REPORT)