

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: P20229

Luminaire Tested: **ML712840TUNVD010EM – 493SCS06 – H750TEM912**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20229
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20229)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010EM – 493SCS06 – H750TEM912
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR 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: 534 (1 lamp)
Luminaire Lumens: 534.3 lumens
Efficiency: 100.0%
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 1.04
Luminous Opening: Vertical Cylinder (Dia: 0.5' x H: 0.1')
CIE Type: Direct

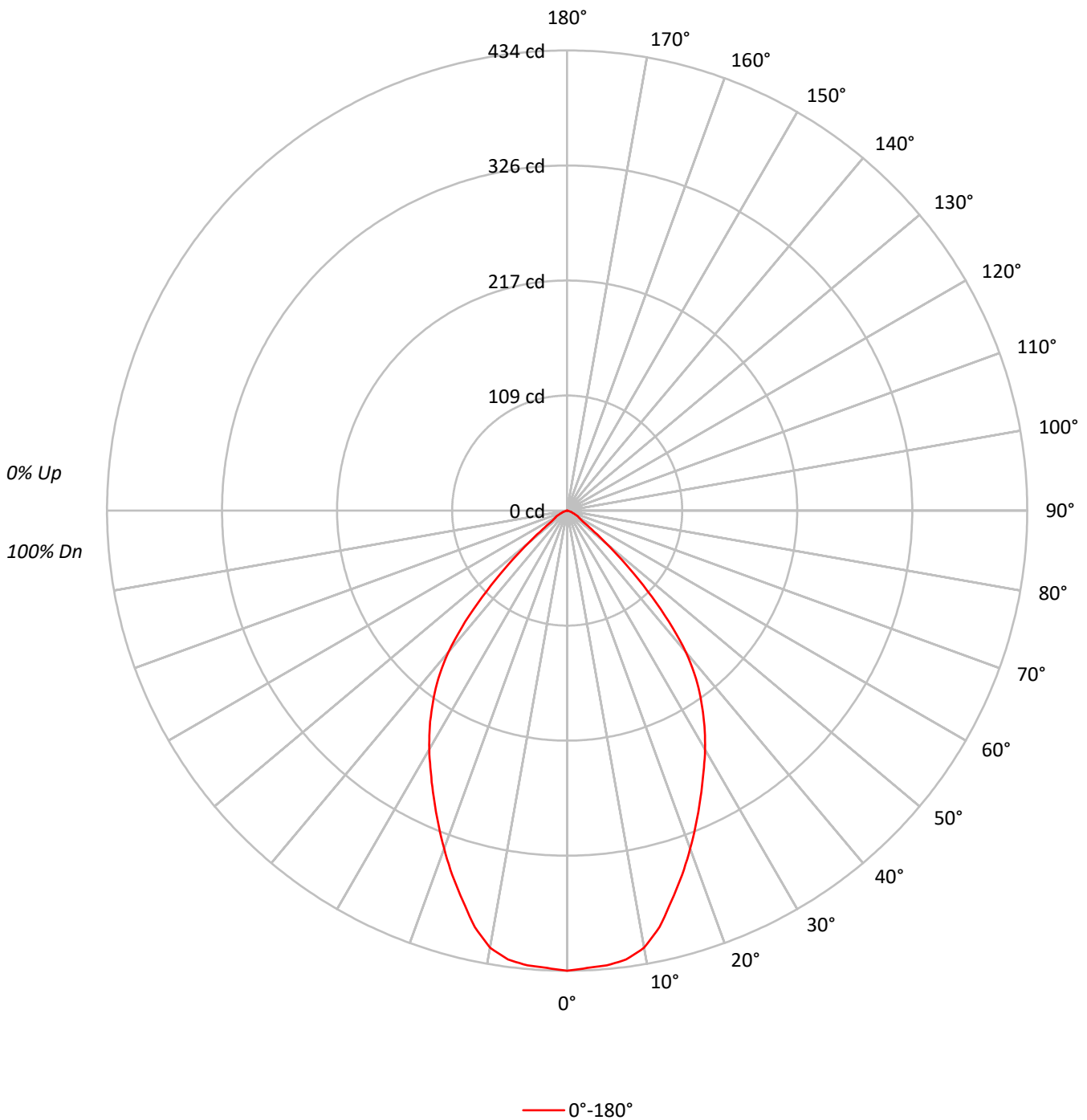
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23792
5°	23174
10°	22300
15°	20226
20°	18115
25°	16107
30°	14360
35°	12546
40°	10289
45°	6624
50°	3114
55°	1276
60°	959
65°	646
70°	396
75°	76
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.7	7.6	7.6
10°-20°	106.7	20.0	20.0
20°-30°	137.1	25.7	25.7
30°-40°	137.1	25.7	25.7
40°-50°	82.8	15.5	15.5
50°-60°	20.2	3.8	3.8
60°-70°	7.9	1.5	1.5
70°-80°	1.7	0.3	0.3
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°	284.6	53.3	53.3
0°-40°	421.6	78.9	79.0
0°-60°	524.7	98.2	98.2
0°-90°	534.3	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°	534.3	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	434	
5°	430	41
15°	381	107
25°	298	137
35°	221	137
45°	107	83
55°	18	20
65°	8	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	434.0
2.5°	431.8
5°	430.5
7.5°	427.0
10°	418.6
12.5°	402.4
15°	380.7
17.5°	360.4
20°	339.3
22.5°	318.3
25°	297.9
27.5°	278.4
30°	260.2
32.5°	241.2
35°	220.9
37.5°	199.8
40°	174.5
42.5°	142.4
45°	107.2
47.5°	74.3
50°	47.6
52.5°	28.8
55°	18.2
57.5°	14.1
60°	12.6
62.5°	10.5
65°	7.7
67.5°	5.6
70°	4.2
72.5°	2.9
75°	0.7
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)