

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: **ML712830TUNVD010EM – 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: ML712830TUNVD010EM – 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: 487 (1 lamp)
Luminaire Lumens: 486.7 lumens
Efficiency: 99.9%
Efficacy: 52.3 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

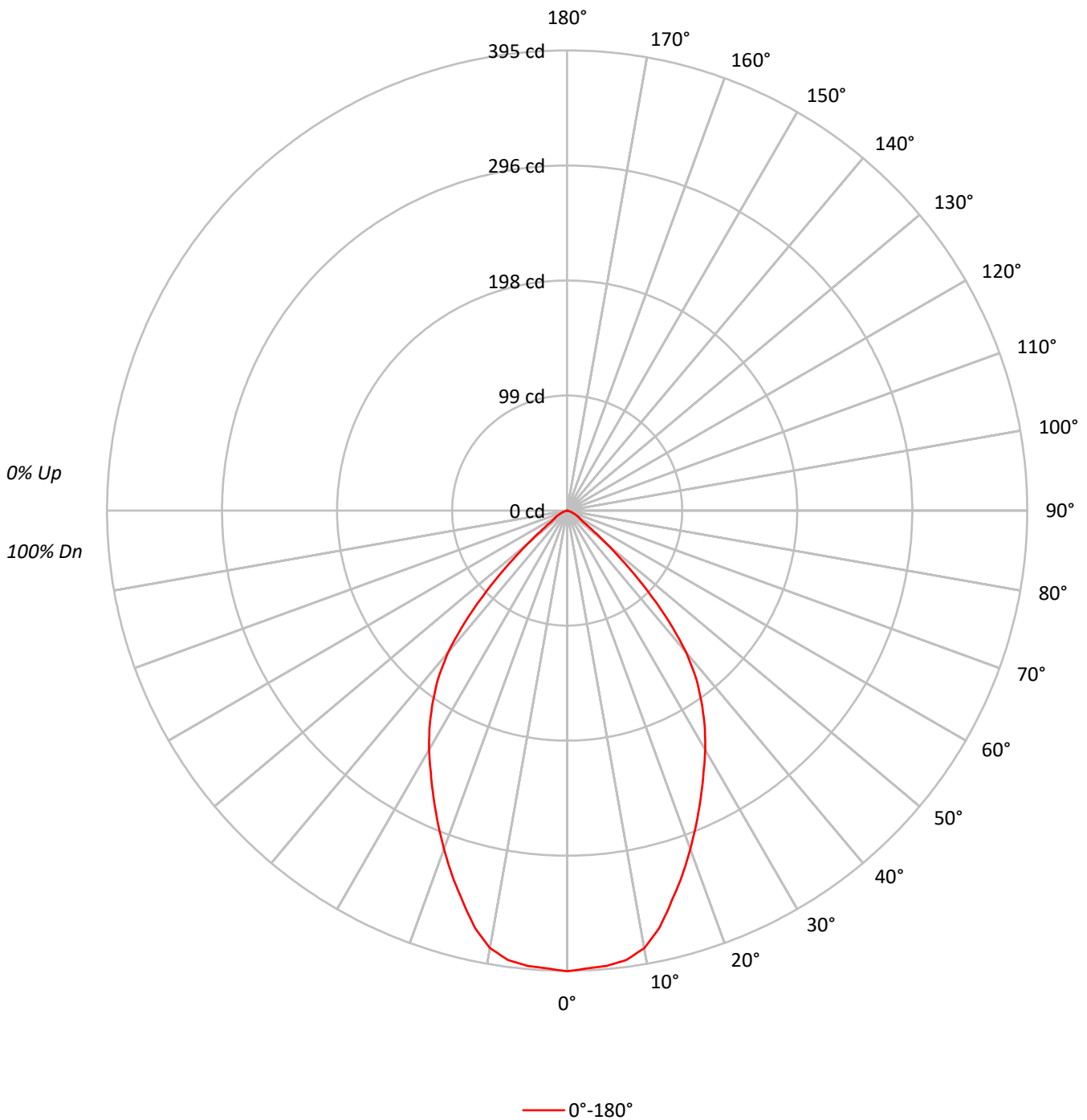
Input Watts (W): 9.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99		100	98	96		96	95	94	92
2	106	100	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	83
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	76	72		79	75	72		77	74	71	69
5	88	78	72	67	86	77	71	66	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	60	56	76	67	60	56	65	59	55		64	59	55		63	58	55	53
8	73	63	56	51	72	62	56	51	61	55	51		60	54	51		59	54	50	49
9	69	58	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°	21676
5°	21112
10°	20313
15°	18425
20°	16503
25°	14674
30°	13079
35°	11427
40°	9375
45°	6037
50°	2840
55°	1163
60°	875
65°	587
70°	358
75°	65
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	37.1	7.6	7.6
10°-20°	97.2	20.0	20.0
20°-30°	124.9	25.7	25.7
30°-40°	124.8	25.7	25.6
40°-50°	75.5	15.5	15.5
50°-60°	18.4	3.8	3.8
60°-70°	7.2	1.5	1.5
70°-80°	1.5	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°	259.3	53.3	53.2
0°-40°	384.1	78.9	78.9
0°-60°	477.9	98.2	98.1
0°-90°	486.7	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°	486.7	100.0	99.9

CANDELA DISTRIBUTION:

	0°	Flux
0°	395	
5°	392	37
15°	347	97
25°	271	125
35°	201	125
45°	98	75
55°	17	18
65°	7	7
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	395.4
2.5°	393.4
5°	392.2
7.5°	389.0
10°	381.3
12.5°	366.6
15°	346.8
17.5°	328.3
20°	309.1
22.5°	290.0
25°	271.4
27.5°	253.6
30°	237.0
32.5°	219.7
35°	201.2
37.5°	182.0
40°	159.0
42.5°	129.7
45°	97.7
47.5°	67.7
50°	43.4
52.5°	26.2
55°	16.6
57.5°	12.8
60°	11.5
62.5°	9.6
65°	7.0
67.5°	5.1
70°	3.8
72.5°	2.6
75°	0.6
77.5°	0.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)