

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 COMMERCIAL

Report Number: P593517

Luminaire Tested: **HC810D010-HM80520850-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC810D010-HM80520850-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1425.8 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

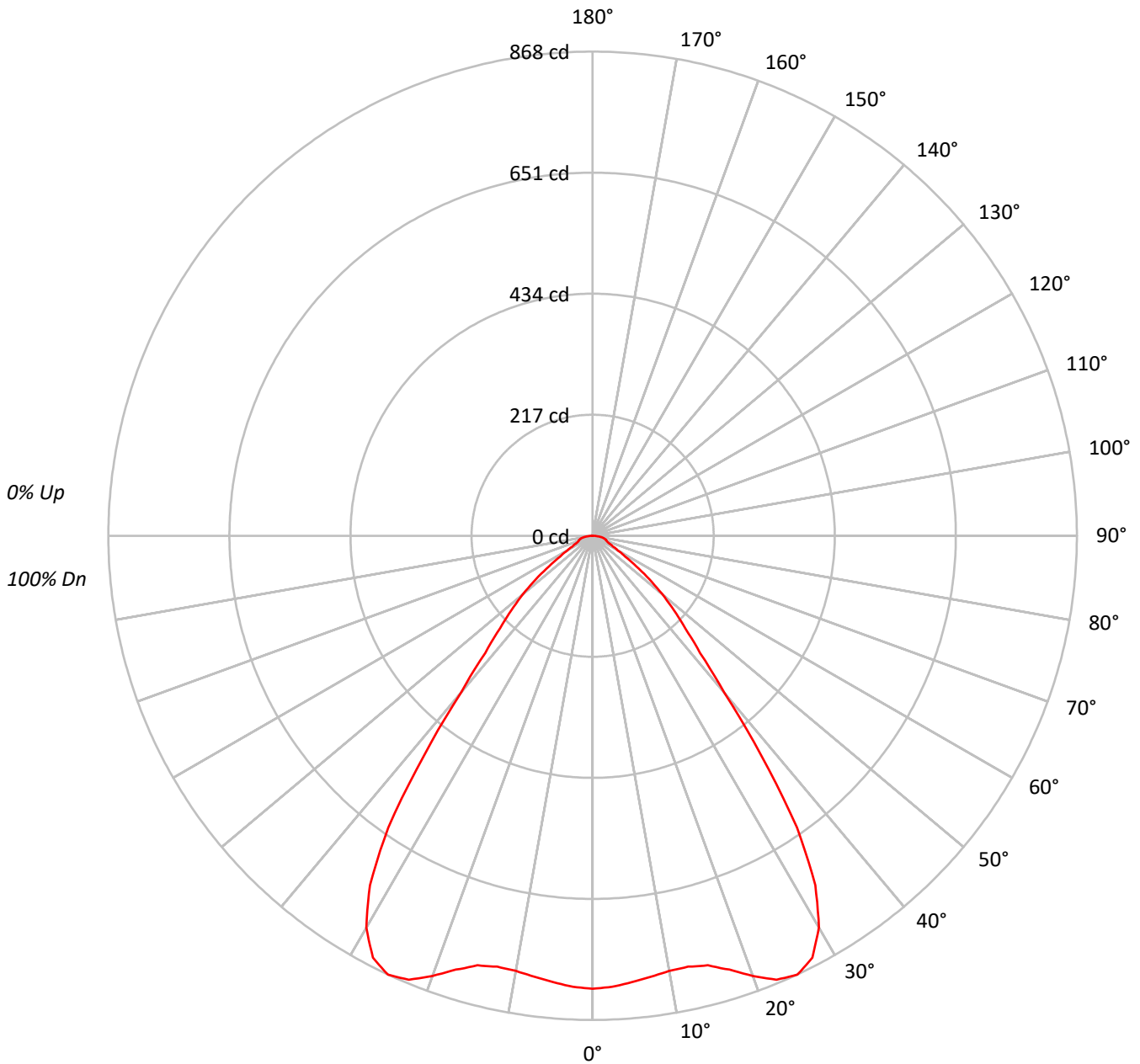
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			49
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			45
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25042
5°	24869
10°	24802
15°	25453
20°	27555
25°	29543
30°	28884
35°	24051
40°	14777
45°	10231
50°	7810
55°	5118
60°	3201
65°	2401
70°	2416
75°	2776
80°	3072
85°	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	5.4
10°-20°	228.9	16.1
20°-30°	394.0	27.6
30°-40°	381.8	26.8
40°-50°	188.1	13.2
50°-60°	88.7	6.2
60°-70°	35.0	2.5
70°-80°	24.1	1.7
80°-90°	9.0	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	699.2	49.0
0°-40°	1081.0	75.8
0°-60°	1357.8	95.2
0°-90°	1425.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	812	
5°	803	76
15°	797	229
25°	868	394
35°	639	382
45°	235	188
55°	95	89
65°	33	35
75°	23	24
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	812.1
2.5°	809.4
5°	803.4
7.5°	797.3
10°	792.1
12.5°	791.3
15°	797.3
17.5°	815.6
20°	839.7
22.5°	861.4
25°	868.3
27.5°	852.7
30°	811.2
32.5°	742.8
35°	638.9
37.5°	496.1
40°	367.1
42.5°	284.9
45°	234.6
47.5°	197.4
50°	162.8
52.5°	128.1
55°	95.2
57.5°	69.2
60°	51.9
62.5°	40.7
65°	32.9
67.5°	28.6
70°	26.8
72.5°	25.1
75°	23.3
77.5°	20.8
80°	17.3
82.5°	13.0
85°	7.8
87.5°	3.5
90°	0.0



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— 0°-180°







(END OF REPORT)