

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: P585200

Luminaire Tested: **HC880D010-HM86080827-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585200
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: HC880D010-HM86080827-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6859.2 lumens
Efficiency: N/A
Efficacy: 98.0 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

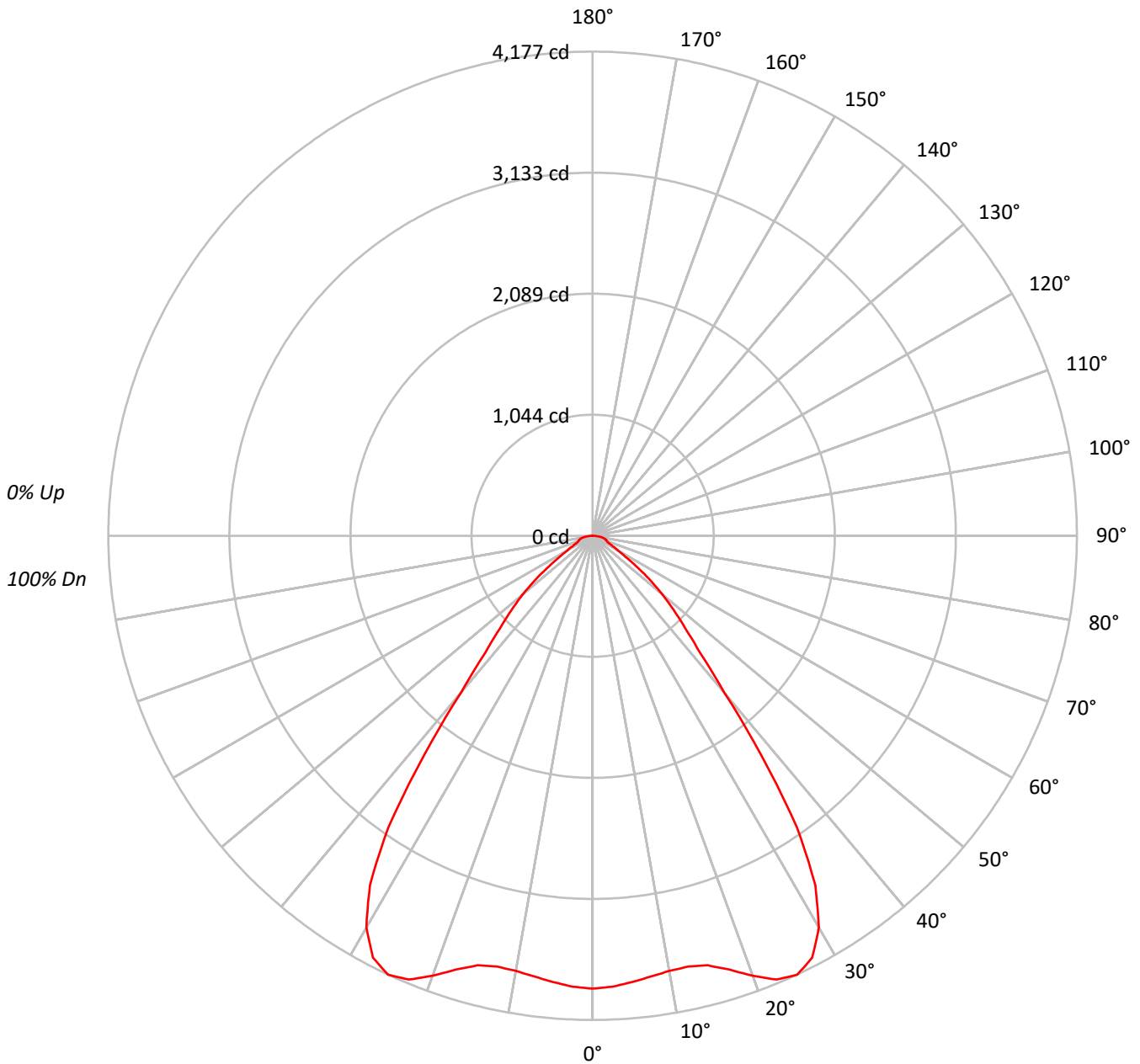
Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120465
5°	119638
10°	119321
15°	122451
20°	132571
25°	142129
30°	138952
35°	115703
40°	71084
45°	49217
50°	37563
55°	24628
60°	15412
65°	11550
70°	11640
75°	13404
80°	14792
85°	13268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	5.4
10°-20°	1101.1	16.1
20°-30°	1895.6	27.6
30°-40°	1836.5	26.8
40°-50°	904.6	13.2
50°-60°	426.9	6.2
60°-70°	168.2	2.5
70°-80°	116.1	1.7
80°-90°	43.0	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°	3363.9	49.0
0°-40°	5200.4	75.8
0°-60°	6531.9	95.2
0°-90°	6859.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6859.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3907	
5°	3865	367
15°	3836	1101
25°	4177	1896
35°	3074	1837
45°	1129	905
55°	458	427
65°	158	168
75°	112	116
85°	38	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3906.6
2.5°	3894.1
5°	3865.0
7.5°	3835.7
10°	3810.7
12.5°	3806.6
15°	3835.7
17.5°	3923.2
20°	4039.9
22.5°	4144.0
25°	4177.3
27.5°	4102.3
30°	3902.4
32.5°	3573.4
35°	3073.6
37.5°	2386.4
40°	1765.9
42.5°	1370.2
45°	1128.6
47.5°	949.5
50°	783.0
52.5°	616.4
55°	458.1
57.5°	333.2
60°	249.9
62.5°	195.7
65°	158.3
67.5°	137.4
70°	129.1
72.5°	120.8
75°	112.5
77.5°	100.0
80°	83.3
82.5°	62.4
85°	37.5
87.5°	16.6
90°	0.0



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— 0°-180°







(END OF REPORT)