

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: P585130

Luminaire Tested: **HC860D010-HM86080927-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080927-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4831.4 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

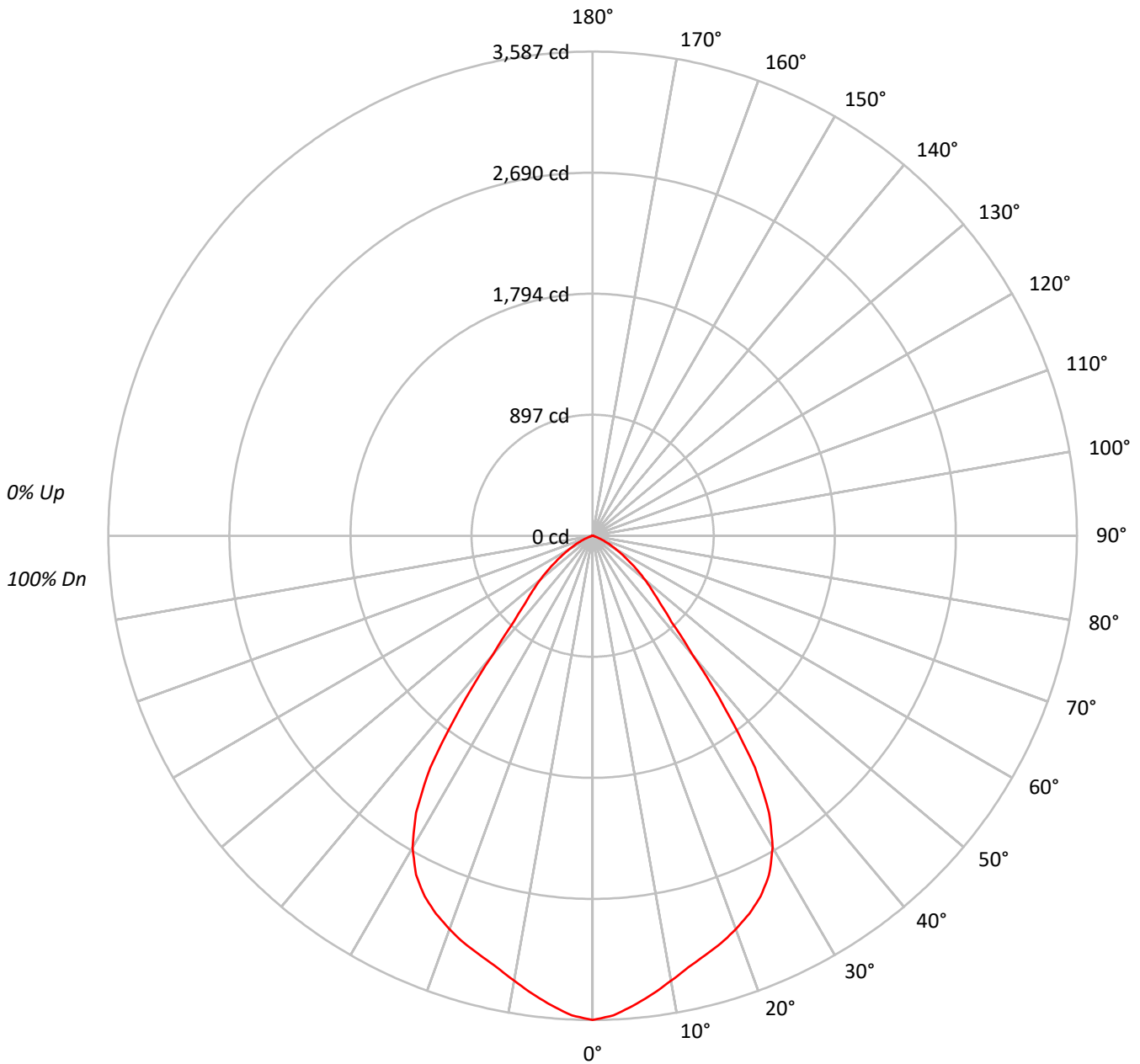
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	110610
5°	108116
10°	104804
15°	102684
20°	101760
25°	100238
30°	94952
35°	78891
40°	46461
45°	30727
50°	24188
55°	17795
60°	12365
65°	7530
70°	3282
75°	1442
80°	1083
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	6.8
10°-20°	909.3	18.8
20°-30°	1347.2	27.9
30°-40°	1244.9	25.8
40°-50°	574.0	11.9
50°-60°	301.9	6.2
60°-70°	106.7	2.2
70°-80°	16.7	0.3
80°-90°	1.6	0.0
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°	2585.5	53.5
0°-40°	3830.4	79.3
0°-60°	4706.3	97.4
0°-90°	4831.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4831.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3587	
5°	3493	329
15°	3216	909
25°	2946	1347
35°	2096	1245
45°	705	574
55°	331	302
65°	103	107
75°	12	17
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3587.0
2.5°	3556.6
5°	3492.8
7.5°	3422.9
10°	3347.1
12.5°	3274.2
15°	3216.5
17.5°	3164.8
20°	3101.0
22.5°	3031.1
25°	2946.1
27.5°	2830.7
30°	2666.7
32.5°	2432.9
35°	2095.7
37.5°	1609.8
40°	1154.2
42.5°	865.6
45°	704.6
47.5°	598.4
50°	504.2
52.5°	413.0
55°	331.0
57.5°	261.2
60°	200.5
62.5°	151.9
65°	103.2
67.5°	60.8
70°	36.4
72.5°	21.2
75°	12.1
77.5°	9.1
80°	6.1
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)