

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: P585121

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080927-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

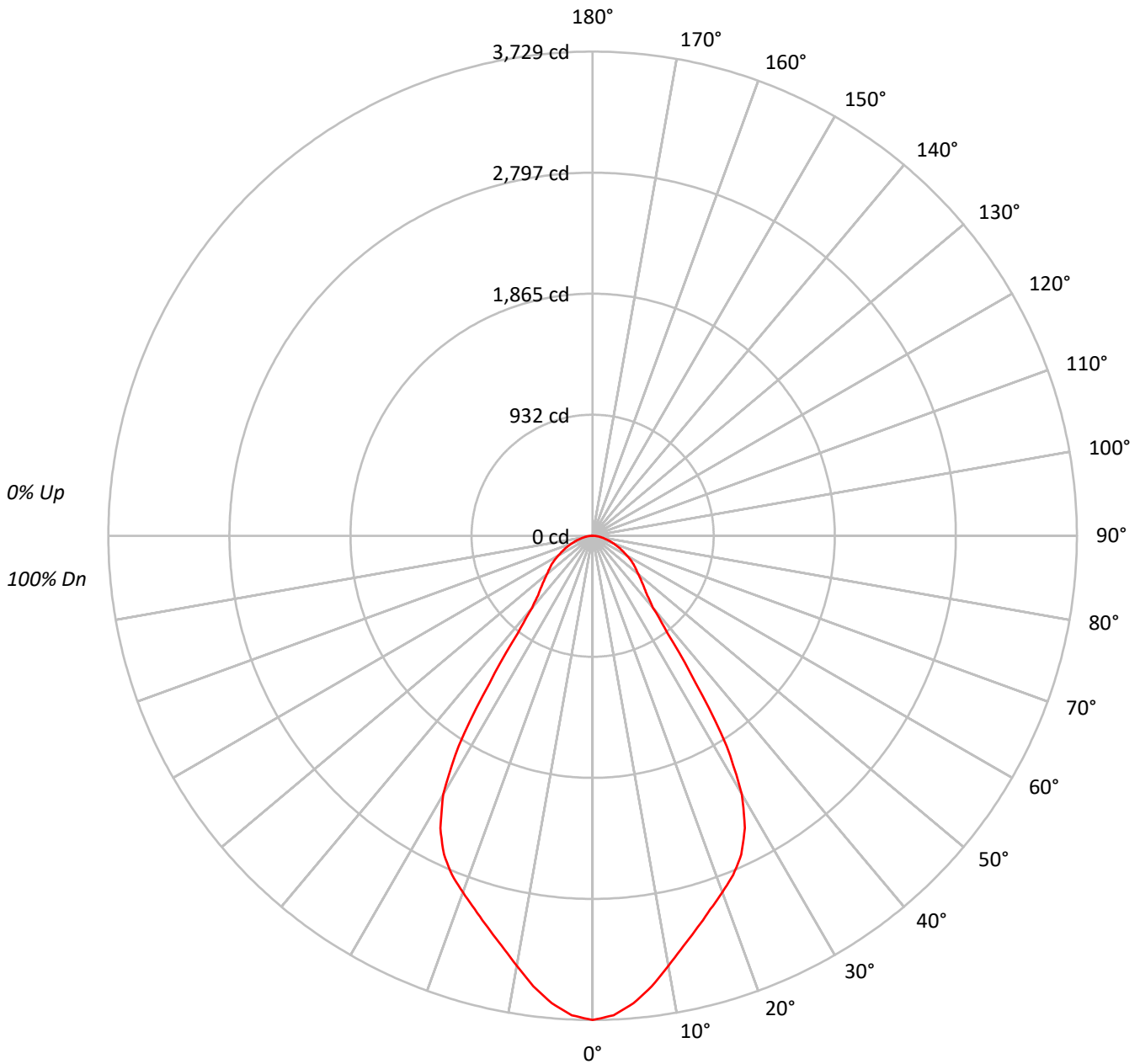
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: HC860D010-HM86080927-81MDW

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114998
5°	111865
10°	105265
15°	99664
20°	95867
25°	92168
30°	81860
35°	52130
40°	29096
45°	24369
50°	22000
55°	20736
60°	18915
65°	17059
70°	15057
75°	13380
80°	11862
85°	10720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	7.5
10°-20°	880.4	19.6
20°-30°	1228.3	27.3
30°-40°	883.8	19.7
40°-50°	438.0	9.7
50°-60°	342.7	7.6
60°-70°	232.0	5.2
70°-80°	120.5	2.7
80°-90°	34.7	0.8
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°	2445.6	54.4
0°-40°	3329.5	74.0
0°-60°	4110.3	91.4
0°-90°	4497.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3729	
5°	3614	337
15°	3122	880
25°	2709	1228
35°	1385	884
45°	559	438
55°	386	343
65°	234	232
75°	112	120
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3729.3
2.5°	3696.0
5°	3613.9
7.5°	3498.5
10°	3361.8
12.5°	3234.2
15°	3121.9
17.5°	3015.7
20°	2921.4
22.5°	2827.3
25°	2708.9
27.5°	2538.9
30°	2299.0
32.5°	1922.4
35°	1384.8
37.5°	944.5
40°	722.8
42.5°	622.6
45°	558.8
47.5°	504.2
50°	458.6
52.5°	419.1
55°	385.7
57.5°	346.3
60°	306.7
62.5°	267.2
65°	233.8
67.5°	200.5
70°	167.0
72.5°	139.7
75°	112.3
77.5°	88.1
80°	66.8
82.5°	48.6
85°	30.3
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)