

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: P585096

Luminaire Tested: **HC860D010-HM86080835-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585096
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-HM86080835-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6623.4 lumens
Efficiency: N/A
Efficacy: 118.3 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

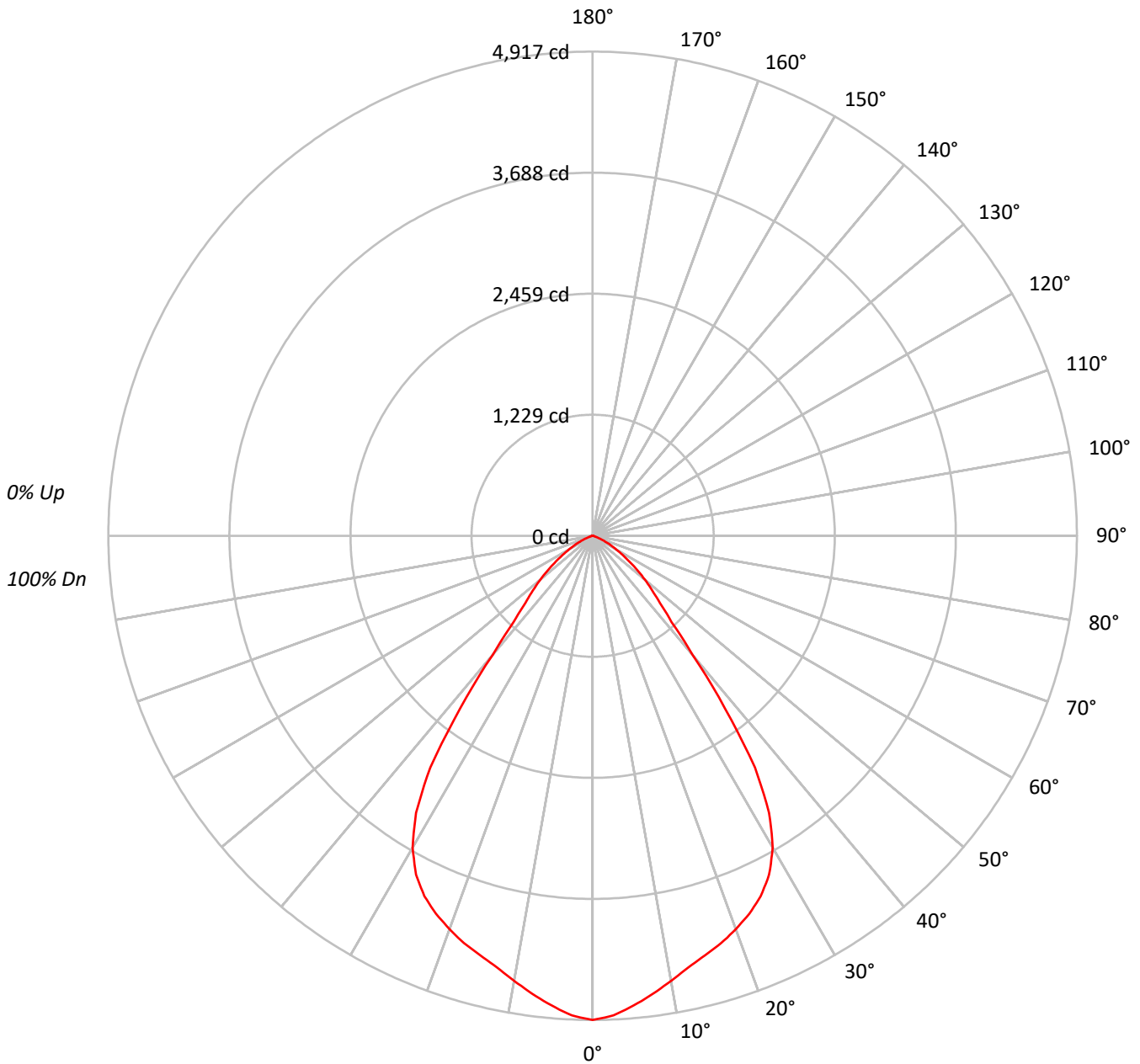
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	151634
5°	148218
10°	143675
15°	140766
20°	139504
25°	137420
30°	130171
35°	108152
40°	63690
45°	42126
50°	33159
55°	24402
60°	16954
65°	10325
70°	4499
75°	1978
80°	1474
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.9	6.8
10°-20°	1246.6	18.8
20°-30°	1847.0	27.9
30°-40°	1706.6	25.8
40°-50°	786.9	11.9
50°-60°	413.9	6.2
60°-70°	146.3	2.2
70°-80°	23.0	0.3
80°-90°	2.3	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°	3544.5	53.5
0°-40°	5251.1	79.3
0°-60°	6451.9	97.4
0°-90°	6623.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6623.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4917	
5°	4788	451
15°	4409	1247
25°	4039	1847
35°	2873	1707
45°	966	787
55°	454	414
65°	142	146
75°	17	23
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4917.4
2.5°	4875.8
5°	4788.3
7.5°	4692.6
10°	4588.5
12.5°	4488.6
15°	4409.4
17.5°	4338.6
20°	4251.2
22.5°	4155.5
25°	4038.9
27.5°	3880.6
30°	3655.8
32.5°	3335.2
35°	2873.0
37.5°	2206.8
40°	1582.2
42.5°	1186.7
45°	966.0
47.5°	820.3
50°	691.2
52.5°	566.3
55°	453.9
57.5°	358.1
60°	274.9
62.5°	208.2
65°	141.5
67.5°	83.3
70°	49.9
72.5°	29.2
75°	16.6
77.5°	12.5
80°	8.3
82.5°	4.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)