

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: P593864

Luminaire Tested: **HC860D010-HM86080850-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593864
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-HM86080850-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6456.8 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

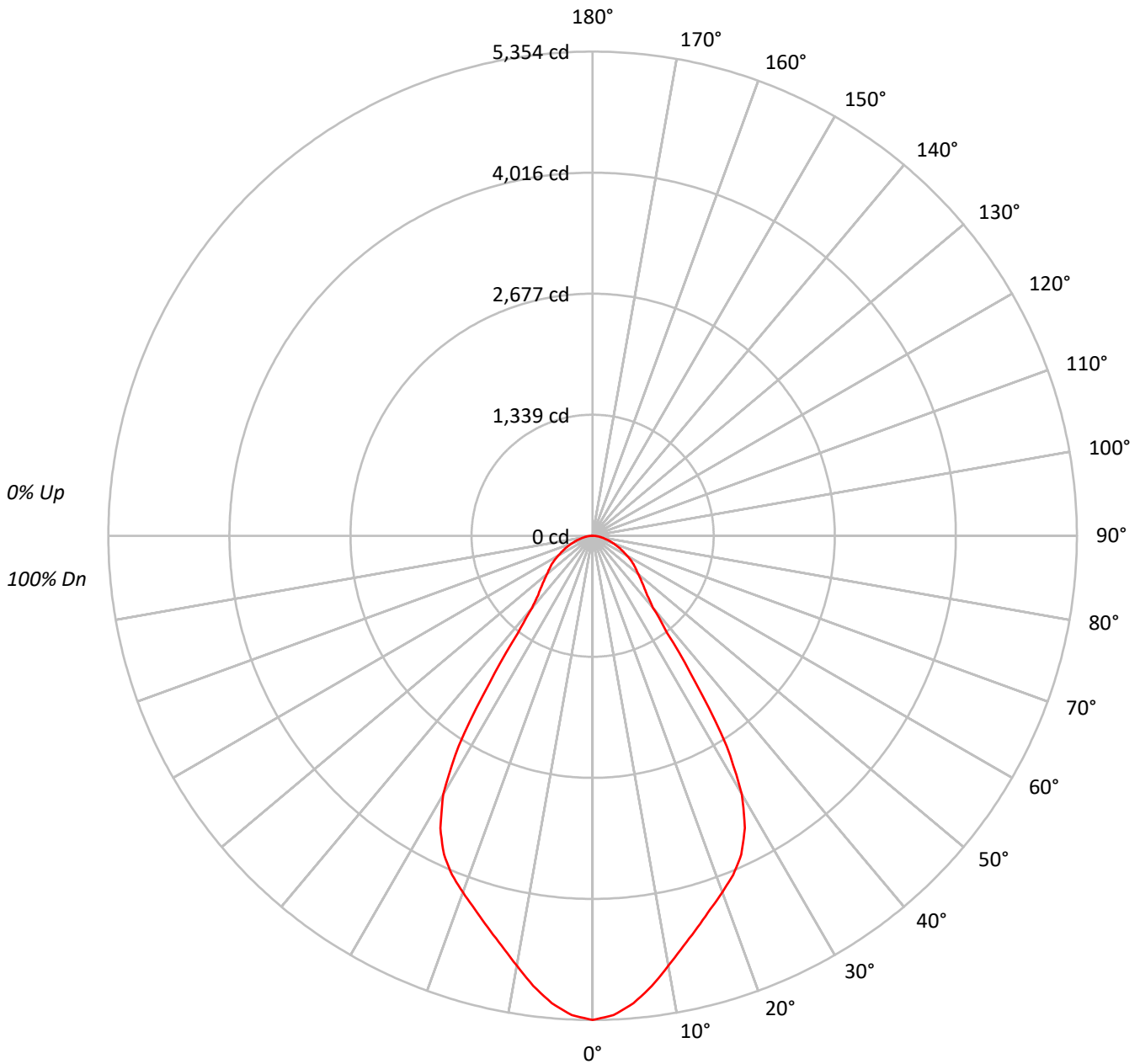
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	165101
5°	160599
10°	151127
15°	143087
20°	137637
25°	132323
30°	117520
35°	74840
40°	41772
45°	34983
50°	31585
55°	29768
60°	27161
65°	24502
70°	21620
75°	19230
80°	17048
85°	15426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.7	7.5
10°-20°	1264.0	19.6
20°-30°	1763.4	27.3
30°-40°	1268.9	19.7
40°-50°	628.8	9.7
50°-60°	492.0	7.6
60°-70°	333.1	5.2
70°-80°	173.0	2.7
80°-90°	49.8	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°	3511.2	54.4
0°-40°	4780.0	74.0
0°-60°	5900.9	91.4
0°-90°	6456.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6456.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5354	
5°	5188	484
15°	4482	1264
25°	3889	1763
35°	1988	1269
45°	802	629
55°	554	492
65°	336	333
75°	161	173
85°	44	50
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5354.1
2.5°	5306.1
5°	5188.3
7.5°	5022.7
10°	4826.5
12.5°	4643.4
15°	4482.1
17.5°	4329.4
20°	4194.3
22.5°	4059.2
25°	3889.1
27.5°	3645.0
30°	3300.5
32.5°	2759.9
35°	1988.1
37.5°	1355.9
40°	1037.7
42.5°	893.8
45°	802.2
47.5°	723.8
50°	658.4
52.5°	601.7
55°	553.7
57.5°	497.0
60°	440.4
62.5°	383.6
65°	335.8
67.5°	287.8
70°	239.8
72.5°	200.6
75°	161.4
77.5°	126.4
80°	96.0
82.5°	69.8
85°	43.6
87.5°	21.8
90°	0.0



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— 0°-180°







(END OF REPORT)