

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: P593856

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080850-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6530.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

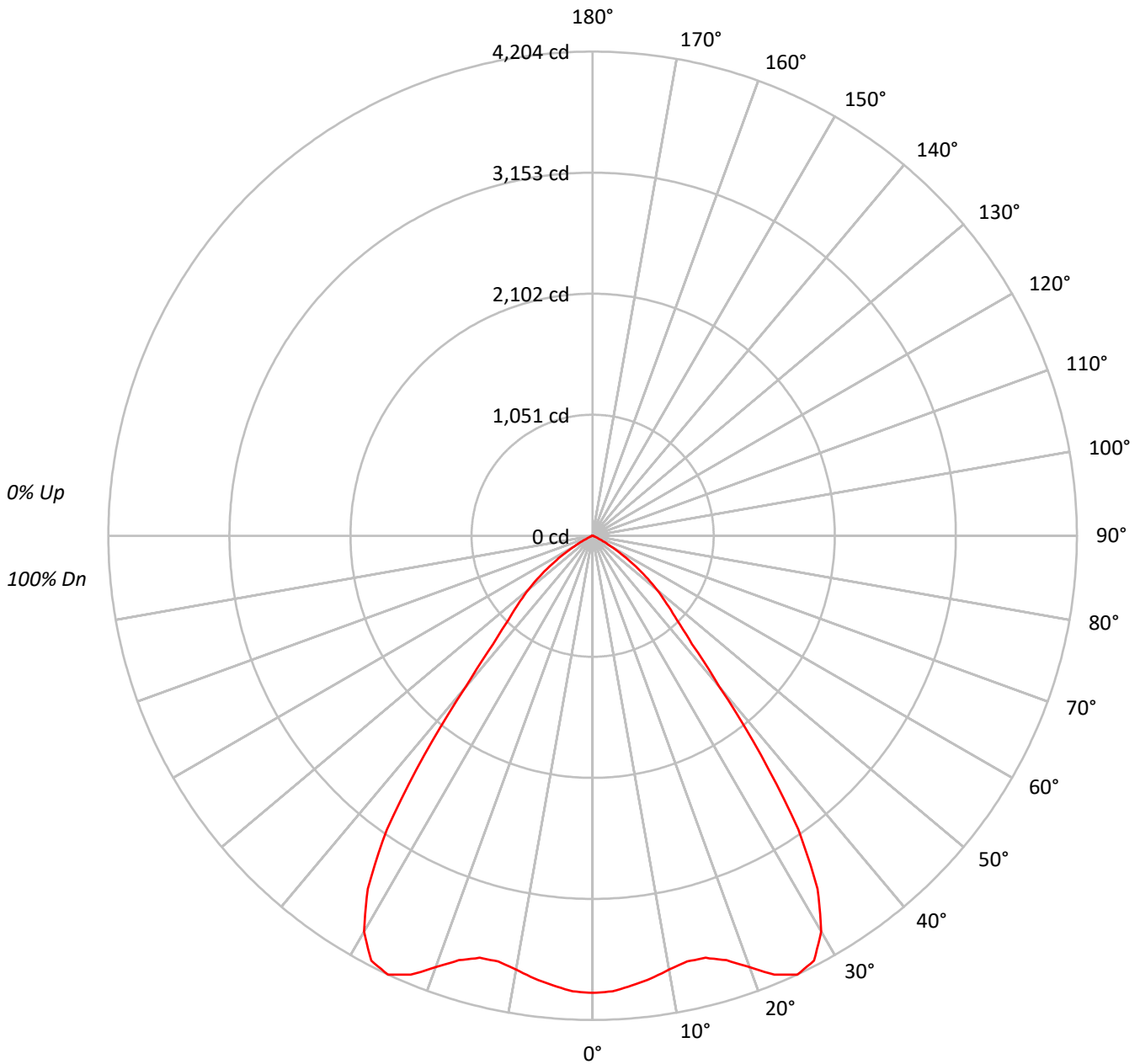
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	104	98	94	91	95	92	89	92	89	87	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	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
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	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	122365
5°	121349
10°	119747
15°	121114
20°	130792
25°	143027
30°	141295
35°	117205
40°	68983
45°	45066
50°	34939
55°	23209
60°	11298
65°	3502
70°	1172
75°	1048
80°	781
85°	1557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	5.7
10°-20°	1089.9	16.7
20°-30°	1905.6	29.2
30°-40°	1853.7	28.4
40°-50°	843.0	12.9
50°-60°	390.9	6.0
60°-70°	65.5	1.0
70°-80°	8.1	0.1
80°-90°	3.0	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°	3366.8	51.6
0°-40°	5220.5	79.9
0°-60°	6454.3	98.8
0°-90°	6530.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6530.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3968	
5°	3920	371
15°	3794	1090
25°	4204	1906
35°	3114	1854
45°	1033	843
55°	432	391
65°	48	66
75°	9	8
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3968.2
2.5°	3959.5
5°	3920.3
7.5°	3876.6
10°	3824.3
12.5°	3785.0
15°	3793.8
17.5°	3863.5
20°	3985.7
22.5°	4125.1
25°	4203.7
27.5°	4160.1
30°	3968.2
32.5°	3632.4
35°	3113.5
37.5°	2398.4
40°	1713.7
42.5°	1277.6
45°	1033.4
47.5°	872.1
50°	728.3
52.5°	579.9
55°	431.7
57.5°	296.5
60°	183.2
62.5°	100.3
65°	48.0
67.5°	21.8
70°	13.0
72.5°	8.8
75°	8.8
77.5°	4.4
80°	4.4
82.5°	4.4
85°	4.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)