

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: P585166

Luminaire Tested: **HC860D010-HM86080935-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080935-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6083.9 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

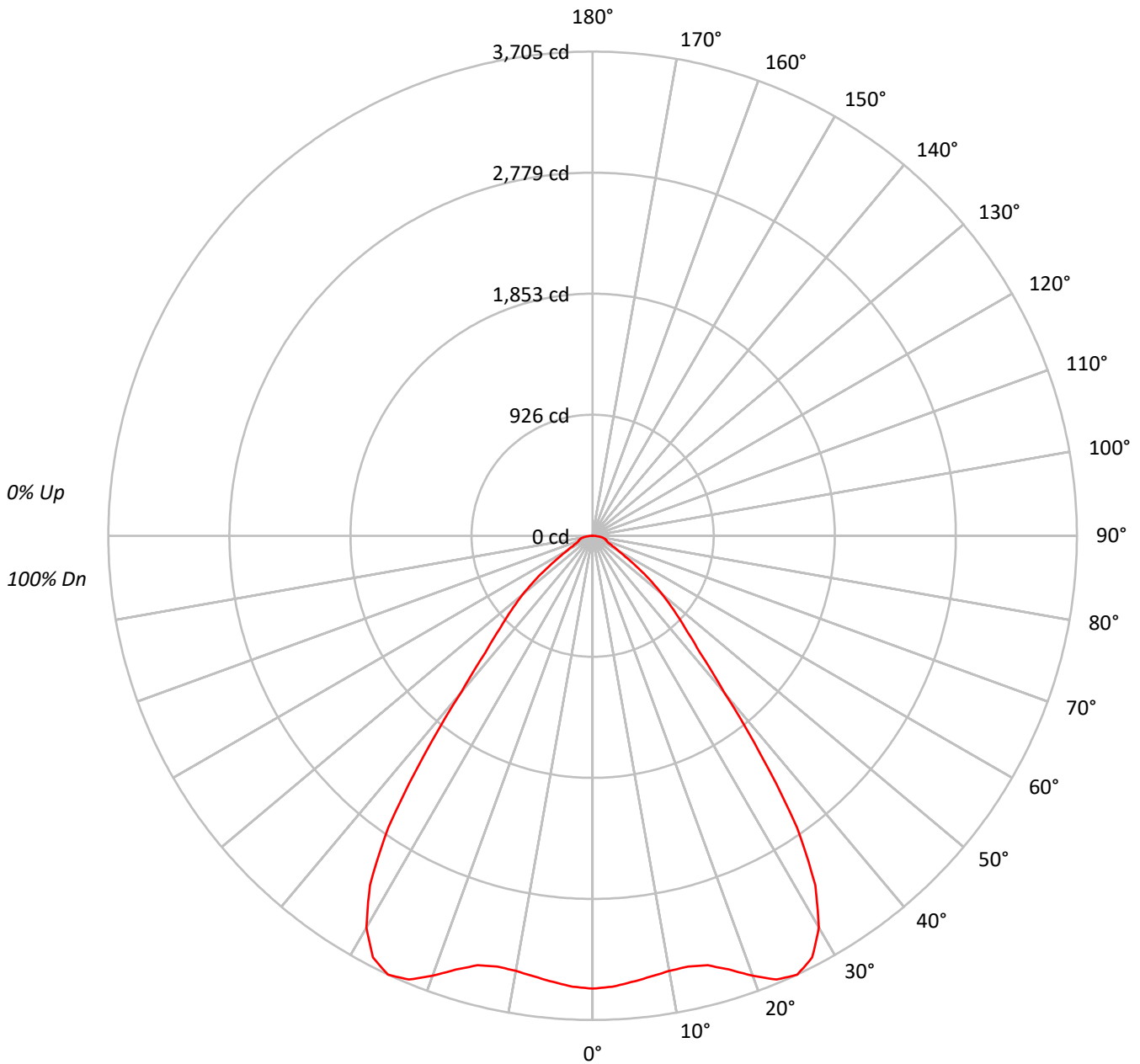
Input Watts (W): 56
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106845
5°	106111
10°	105835
15°	108612
20°	117584
25°	126063
30°	123242
35°	102626
40°	63046
45°	43653
50°	33317
55°	21843
60°	13673
65°	10244
70°	10323
75°	11890
80°	13123
85°	11746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	5.4
10°-20°	976.7	16.1
20°-30°	1681.3	27.6
30°-40°	1628.9	26.8
40°-50°	802.3	13.2
50°-60°	378.6	6.2
60°-70°	149.2	2.5
70°-80°	103.0	1.7
80°-90°	38.2	0.6
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°	2983.7	49.0
0°-40°	4612.6	75.8
0°-60°	5793.5	95.2
0°-90°	6083.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3465	
5°	3428	326
15°	3402	977
25°	3705	1681
35°	2726	1629
45°	1001	802
55°	406	379
65°	140	149
75°	100	103
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3464.9
2.5°	3453.9
5°	3428.0
7.5°	3402.2
10°	3380.0
12.5°	3376.3
15°	3402.2
17.5°	3479.8
20°	3583.2
22.5°	3675.5
25°	3705.1
27.5°	3638.6
30°	3461.2
32.5°	3169.4
35°	2726.2
37.5°	2116.7
40°	1566.2
42.5°	1215.3
45°	1001.0
47.5°	842.2
50°	694.5
52.5°	546.7
55°	406.3
57.5°	295.5
60°	221.7
62.5°	173.6
65°	140.4
67.5°	121.9
70°	114.5
72.5°	107.2
75°	99.8
77.5°	88.7
80°	73.9
82.5°	55.4
85°	33.2
87.5°	14.8
90°	0.0



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— 0°-180°







(END OF REPORT)