

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: P585142

Luminaire Tested: **HC860D010-HM86080930-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC860D010-HM86080930-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

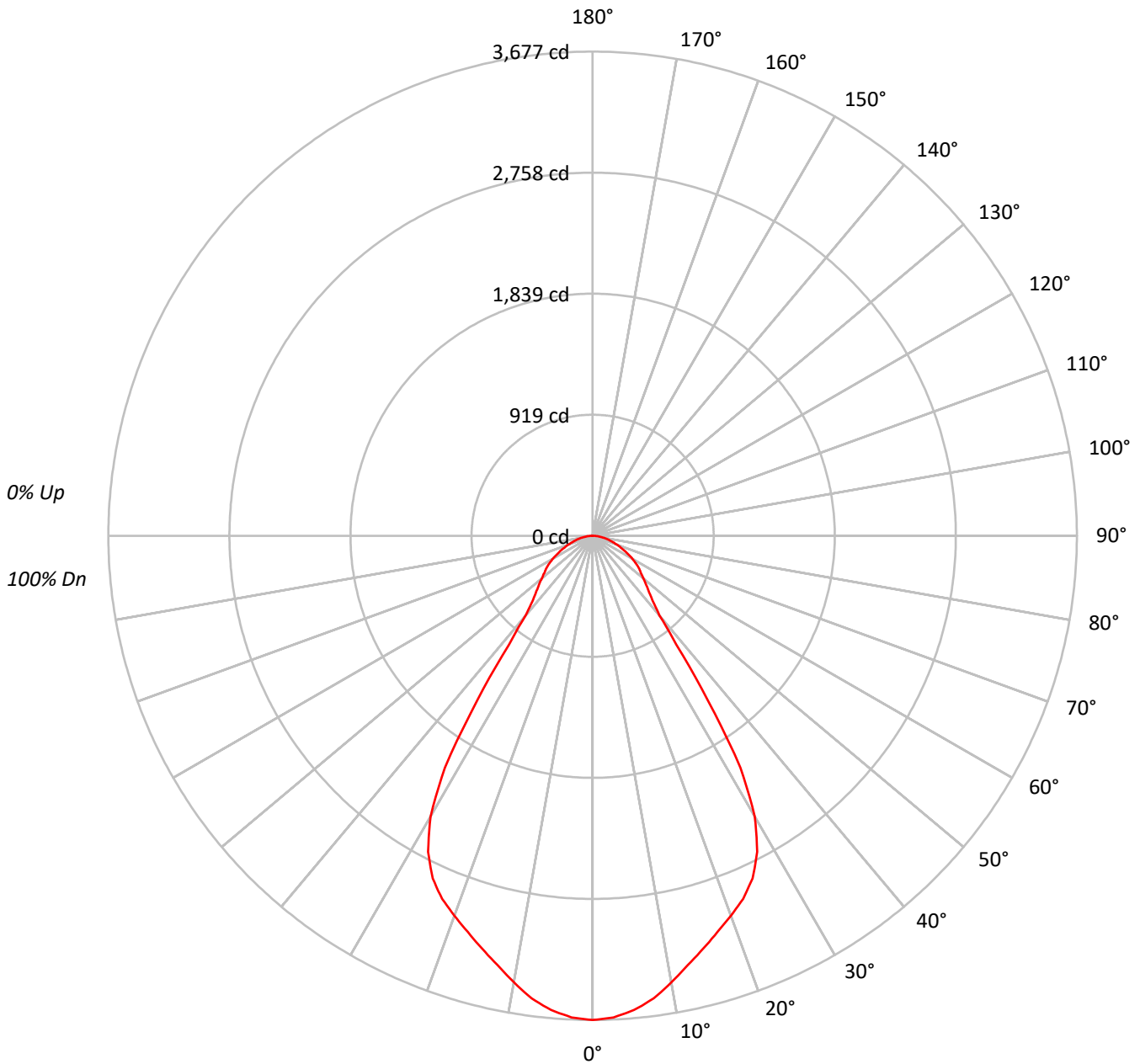
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113394
5°	111918
10°	107820
15°	103600
20°	100736
25°	97704
30°	87678
35°	57475
40°	31776
45°	26493
50°	24154
55°	23053
60°	21437
65°	19431
70°	17572
75°	15870
80°	14419
85°	13798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.7	7.0
10°-20°	915.6	19.0
20°-30°	1303.0	27.0
30°-40°	964.4	20.0
40°-50°	477.7	9.9
50°-60°	381.2	7.9
60°-70°	264.6	5.5
70°-80°	142.6	3.0
80°-90°	42.0	0.9
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°	2558.3	53.0
0°-40°	3522.7	72.9
0°-60°	4381.5	90.7
0°-90°	4830.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3677	
5°	3616	340
15°	3245	916
25°	2872	1303
35°	1527	964
45°	608	478
55°	429	381
65°	266	265
75°	133	143
85°	39	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3677.3
2.5°	3661.0
5°	3615.6
7.5°	3544.1
10°	3443.4
12.5°	3339.4
15°	3245.2
17.5°	3154.3
20°	3069.8
22.5°	2985.3
25°	2871.6
27.5°	2706.0
30°	2462.4
32.5°	2088.8
35°	1526.8
37.5°	1042.8
40°	789.4
42.5°	675.7
45°	607.5
47.5°	552.2
50°	503.5
52.5°	461.2
55°	428.8
57.5°	389.8
60°	347.6
62.5°	305.3
65°	266.3
67.5°	227.5
70°	194.9
72.5°	162.4
75°	133.2
77.5°	107.2
80°	81.2
82.5°	58.5
85°	39.0
87.5°	16.3
90°	0.0



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— 0°-180°







(END OF REPORT)