

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: P585176

Luminaire Tested: **HC860D010-HM86080940-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585176
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-HM86080940-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5665.8 lumens
Efficiency: N/A
Efficacy: 101.2 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

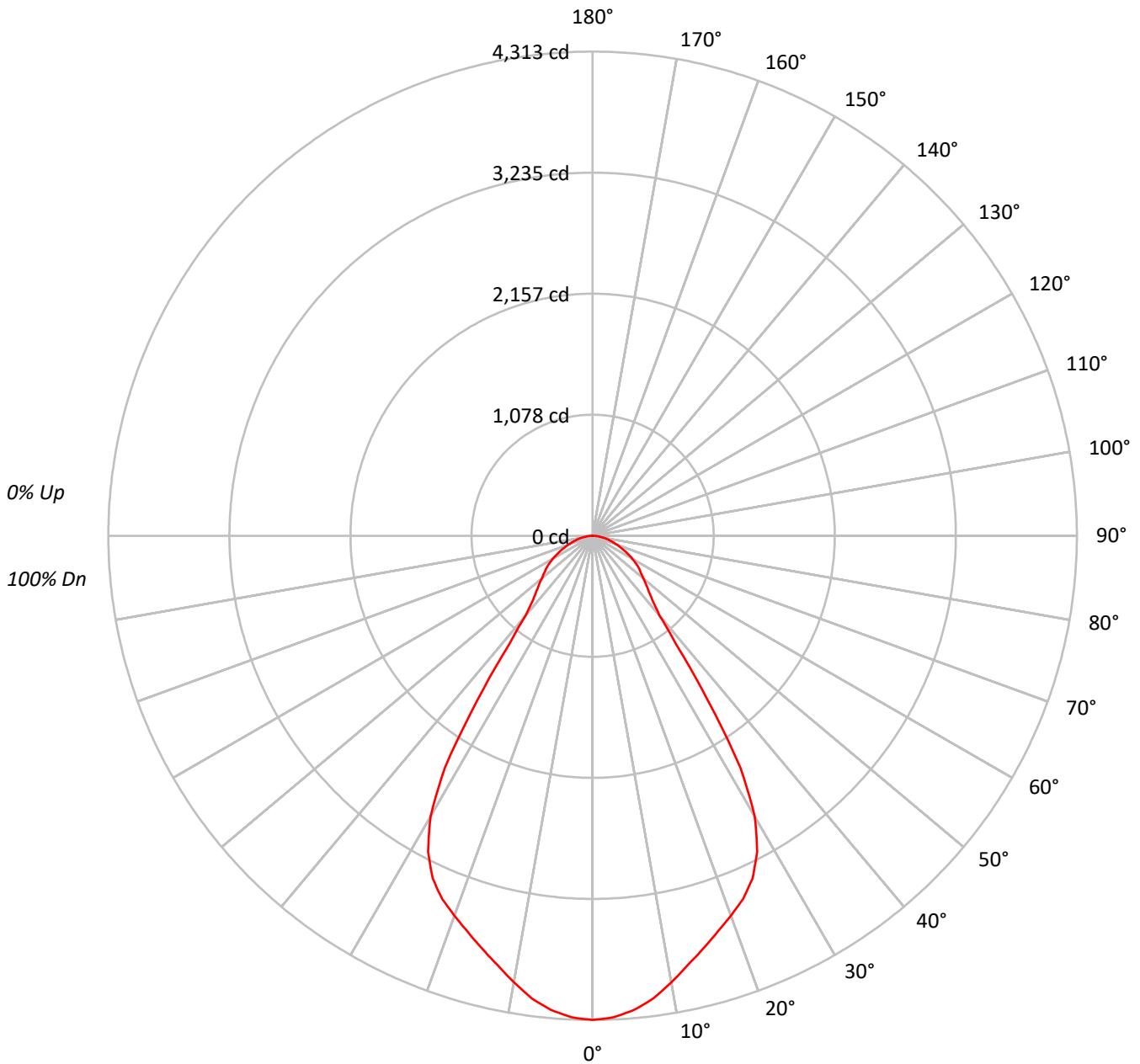
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	132994
5°	131261
10°	126454
15°	121506
20°	118152
25°	114593
30°	102832
35°	67409
40°	37267
45°	31072
50°	28328
55°	27037
60°	25138
65°	22802
70°	20610
75°	18610
80°	16923
85°	16169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.4	7.0
10°-20°	1073.8	19.0
20°-30°	1528.2	27.0
30°-40°	1131.1	20.0
40°-50°	560.2	9.9
50°-60°	447.1	7.9
60°-70°	310.4	5.5
70°-80°	167.3	3.0
80°-90°	49.2	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°	3000.5	53.0
0°-40°	4131.6	72.9
0°-60°	5138.9	90.7
0°-90°	5665.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5665.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4313	
5°	4240	398
15°	3806	1074
25°	3368	1528
35°	1791	1131
45°	712	560
55°	503	447
65°	312	310
75°	156	167
85°	46	49
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4312.9
2.5°	4293.8
5°	4240.5
7.5°	4156.6
10°	4038.5
12.5°	3916.6
15°	3806.1
17.5°	3699.4
20°	3600.5
22.5°	3501.4
25°	3368.0
27.5°	3173.7
30°	2888.0
32.5°	2449.8
35°	1790.7
37.5°	1223.0
40°	925.8
42.5°	792.5
45°	712.5
47.5°	647.7
50°	590.5
52.5°	541.1
55°	502.9
57.5°	457.2
60°	407.6
62.5°	358.1
65°	312.5
67.5°	266.7
70°	228.6
72.5°	190.5
75°	156.2
77.5°	125.7
80°	95.3
82.5°	68.6
85°	45.7
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)