

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: P585221

Luminaire Tested: **HC880D010-HM86080835-81MDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P585221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC880D010-HM86080835-81MDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8035.9 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.67
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

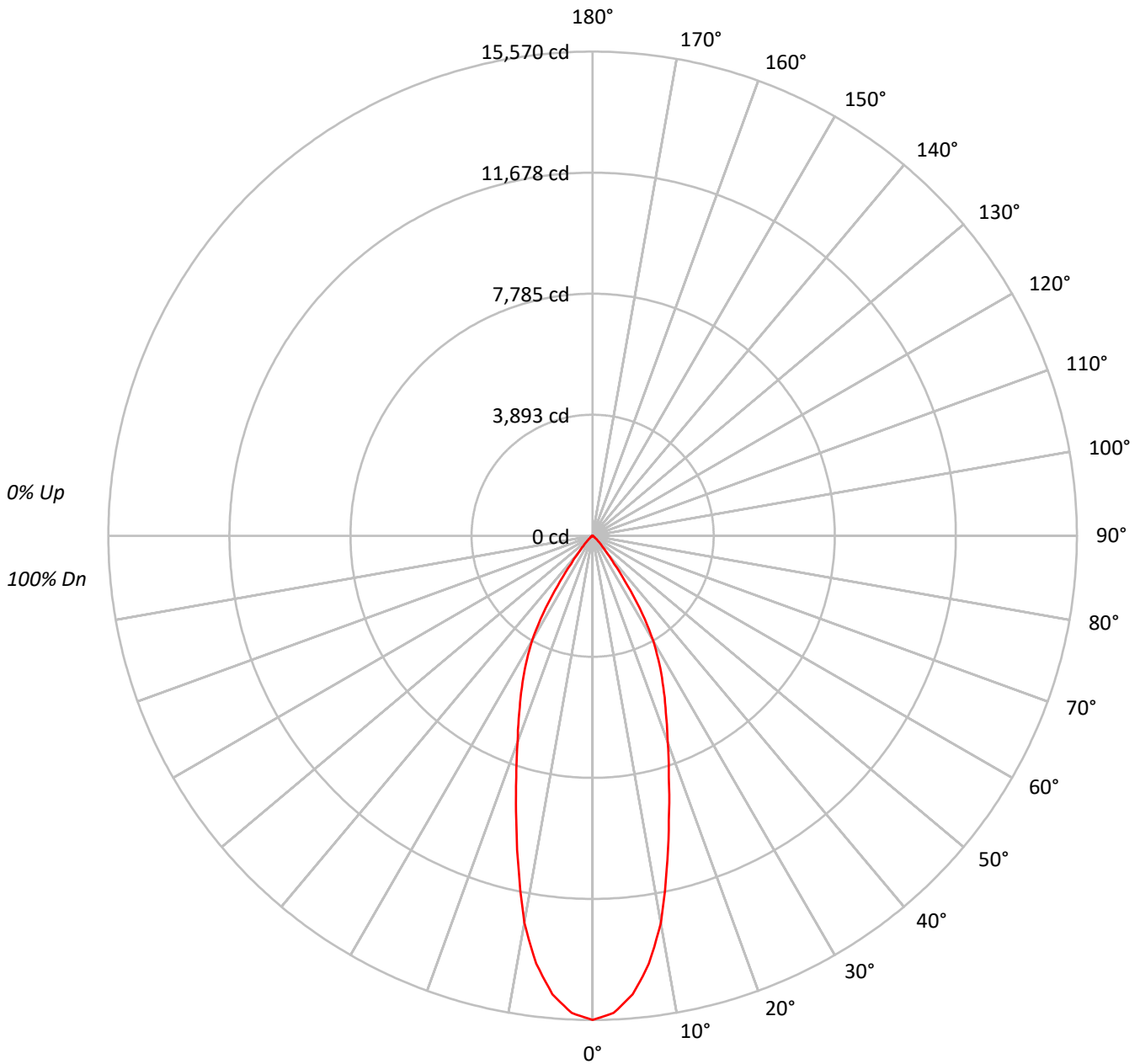
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P585221

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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	87	85	84			84
4	100	93	88	84	98	92	87	83	90	86	82	88	84	82	86	83	81	79			79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75			75
6	91	83	78	74	90	82	77	73	81	76	73	79	76	73	78	75	72	71			71
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67			67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58			58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	480131
5°	458105
10°	395511
15°	302433
20°	231401
25°	183074
30°	138293
35°	73572
40°	28025
45°	13445
50°	5728
55°	2403
60°	919
65°	730
70°	451
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1343.4	16.7
10°-20°	2644.7	32.9
20°-30°	2463.1	30.7
30°-40°	1270.9	15.8
40°-50°	258.9	3.2
50°-60°	44.3	0.6
60°-70°	8.6	0.1
70°-80°	2.0	0.0
80°-90°	0.0	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°	6451.2	80.3
0°-40°	7722.2	96.1
0°-60°	8025.3	99.9
0°-90°	8035.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8035.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15570	
5°	14800	###
15°	9474	2645
25°	5381	2463
35°	1954	1271
45°	308	259
55°	45	44
65°	10	9
75°	0	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	15570.3
2.5°	15361.5
5°	14799.5
7.5°	13874.6
10°	12631.3
12.5°	11000.2
15°	9473.5
17.5°	8150.7
20°	7051.6
22.5°	6156.5
25°	5380.7
27.5°	4644.7
30°	3883.9
32.5°	2978.8
35°	1954.4
37.5°	1133.8
40°	696.2
42.5°	457.5
45°	308.3
47.5°	193.9
50°	119.4
52.5°	69.7
55°	44.7
57.5°	19.9
60°	14.9
62.5°	10.0
65°	10.0
67.5°	5.0
70°	5.0
72.5°	5.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)