

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: P584037

Luminaire Tested: **HC820D010-HM80520927-81PSMDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584037
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: HC820D010-HM80520927-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1757.6 lumens
Efficiency: N/A
Efficacy: 87.9 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

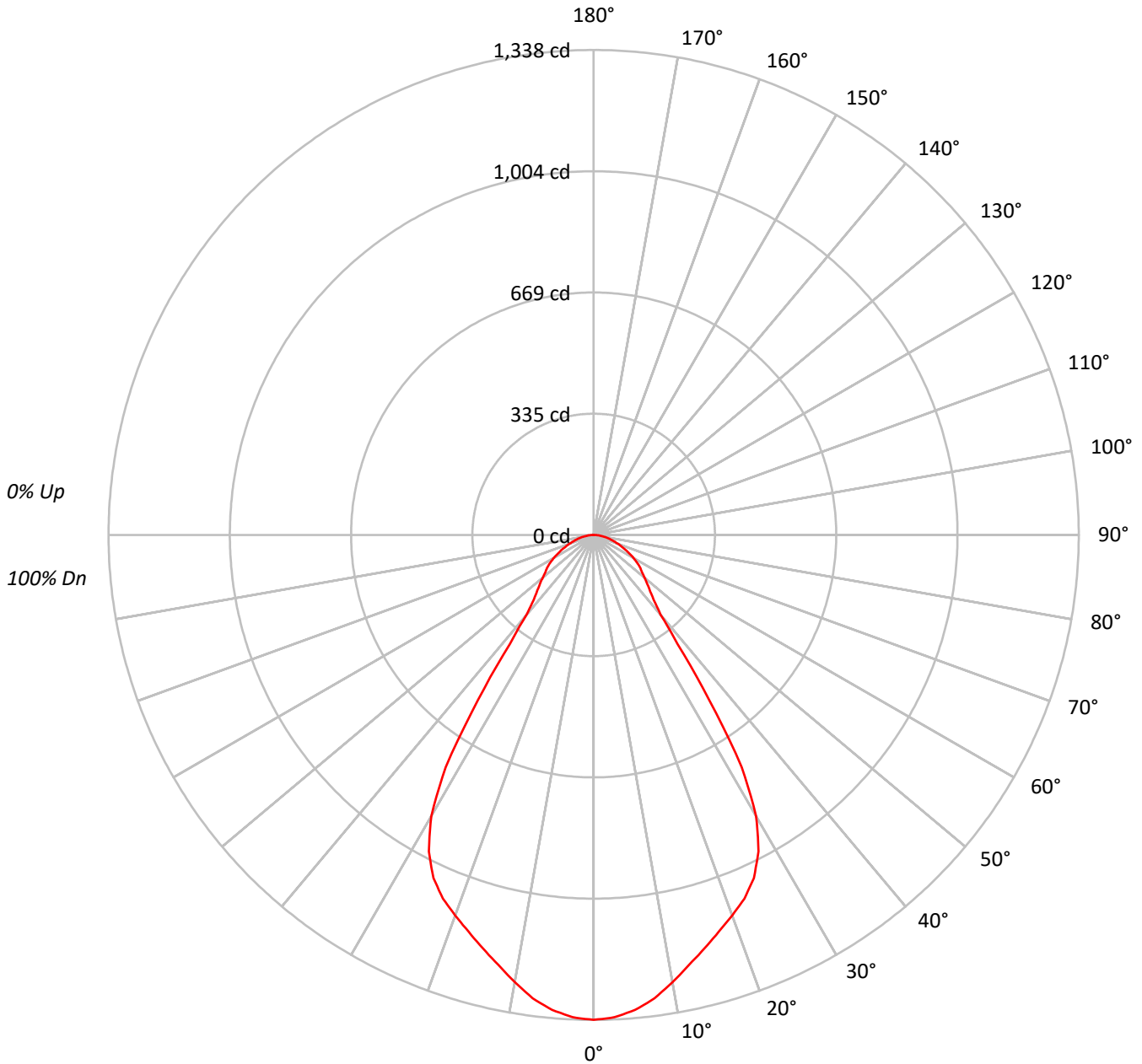
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41256
5°	40717
10°	39228
15°	37693
20°	36651
25°	35548
30°	31904
35°	20911
40°	11561
45°	9638
50°	8789
55°	8387
60°	7802
65°	7070
70°	6392
75°	5778
80°	5256
85°	5024



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	7.0
10°-20°	333.1	19.0
20°-30°	474.1	27.0
30°-40°	350.9	20.0
40°-50°	173.8	9.9
50°-60°	138.7	7.9
60°-70°	96.3	5.5
70°-80°	51.9	3.0
80°-90°	15.3	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°	930.8	53.0
0°-40°	1281.7	72.9
0°-60°	1594.2	90.7
0°-90°	1757.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1338	
5°	1315	124
15°	1181	333
25°	1045	474
35°	556	351
45°	221	174
55°	156	139
65°	97	96
75°	48	52
85°	14	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1337.9
2.5°	1332.0
5°	1315.4
7.5°	1289.4
10°	1252.8
12.5°	1215.0
15°	1180.7
17.5°	1147.6
20°	1116.9
22.5°	1086.1
25°	1044.8
27.5°	984.5
30°	896.0
32.5°	760.0
35°	555.5
37.5°	379.4
40°	287.2
42.5°	245.9
45°	221.0
47.5°	200.9
50°	183.2
52.5°	167.8
55°	156.0
57.5°	141.8
60°	126.5
62.5°	111.1
65°	96.9
67.5°	82.7
70°	70.9
72.5°	59.1
75°	48.5
77.5°	39.0
80°	29.6
82.5°	21.3
85°	14.2
87.5°	5.9
90°	0.0



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— 0°-180°







(END OF REPORT)