

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: P579995

Luminaire Tested: **HC4R20D010-HM40525830-42RMDC**

Issue Date: 9/23/2021

Test Information

Test Method: LM-41-14
Report Number: P579995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/23/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC4R20D010-HM40525830-42RMDC
Description: HALO COMMERCIAL 4" ROUND, RETROFIT FRAME, WITH 4" MEDIUM DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2031.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.96
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

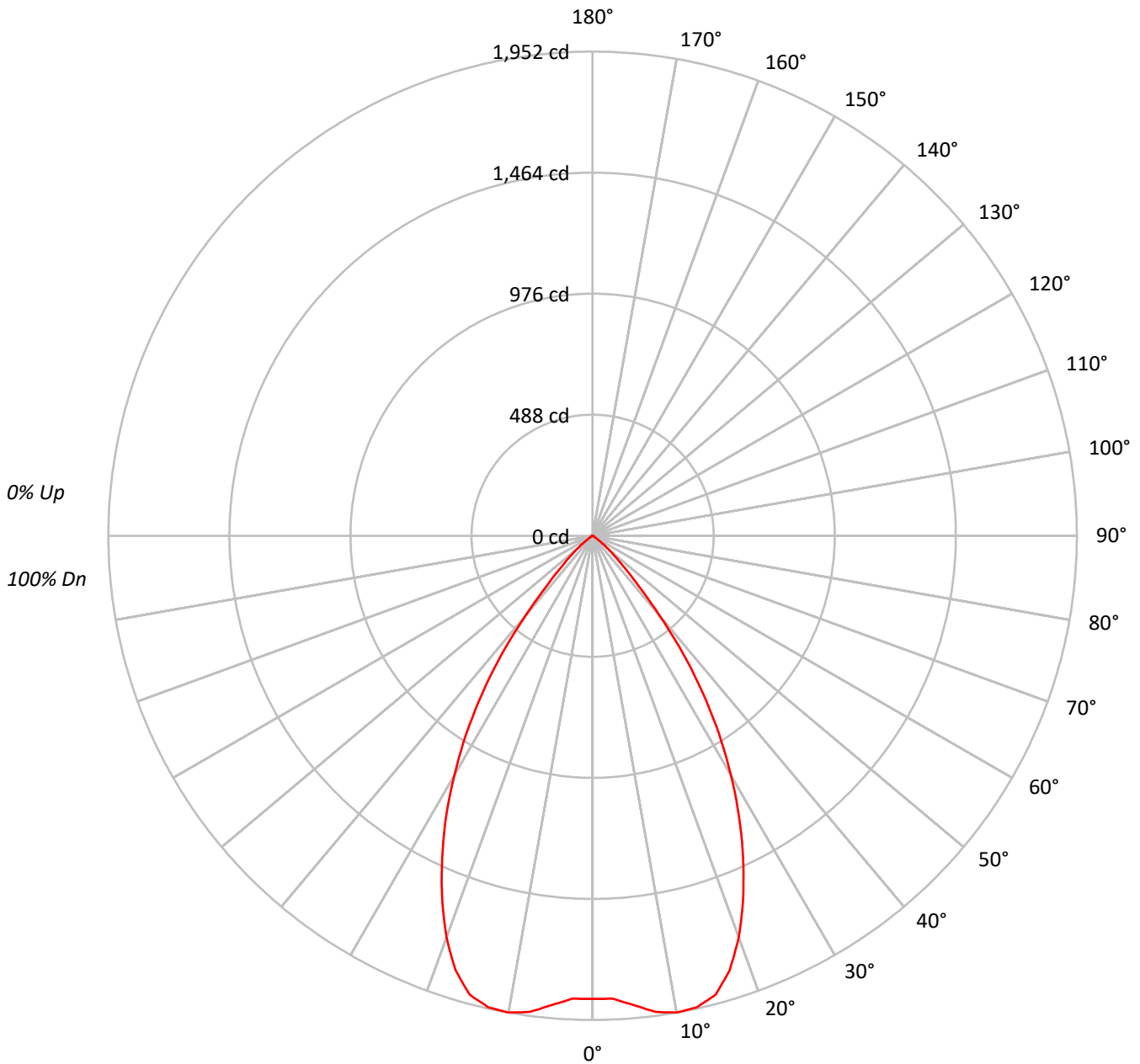
Input Watts (W): 20
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86		
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80		
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74		
5	92	83	77	73	90	82	76	72	80	75	72	78	74	71	77	73	70	69		
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64		
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	60		
8	78	68	62	58	77	68	62	58	67	61	57	65	61	57	65	60	57	56		
9	74	64	58	54	73	64	58	54	63	57	54	62	57	54	61	57	53	52		
10	70	61	55	51	69	60	54	51	59	54	50	58	54	50	58	53	50	49		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230237
5°	235165
10°	244447
15°	244539
20°	226085
25°	195381
30°	158949
35°	116773
40°	67482
45°	31538
50°	14565
55°	5075
60°	1603
65°	1138
70°	938
75°	620
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	9.0
10°-20°	530.7	26.1
20°-30°	653.6	32.2
30°-40°	477.2	23.5
40°-50°	155.5	7.7
50°-60°	26.0	1.3
60°-70°	4.0	0.2
70°-80°	1.4	0.1
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°	1367.6	67.3
0°-40°	1844.7	90.8
0°-60°	2026.2	99.7
0°-90°	2031.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2031.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1867	
5°	1899	183
15°	1915	531
25°	1436	654
35°	776	477
45°	181	156
55°	24	26
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1866.6
2.5°	1867.9
5°	1899.3
7.5°	1936.0
10°	1951.7
12.5°	1946.5
15°	1915.0
17.5°	1836.5
20°	1722.4
22.5°	1584.9
25°	1435.6
27.5°	1279.7
30°	1116.0
32.5°	948.3
35°	775.5
37.5°	601.3
40°	419.1
42.5°	273.8
45°	180.8
47.5°	119.2
50°	75.9
52.5°	44.5
55°	23.6
57.5°	9.2
60°	6.5
62.5°	5.3
65°	3.9
67.5°	2.6
70°	2.6
72.5°	1.3
75°	1.3
77.5°	1.3
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)