

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: P584074

Luminaire Tested: **HC820D010-HM80520935-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC820D010-HM80520935-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2070.8 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

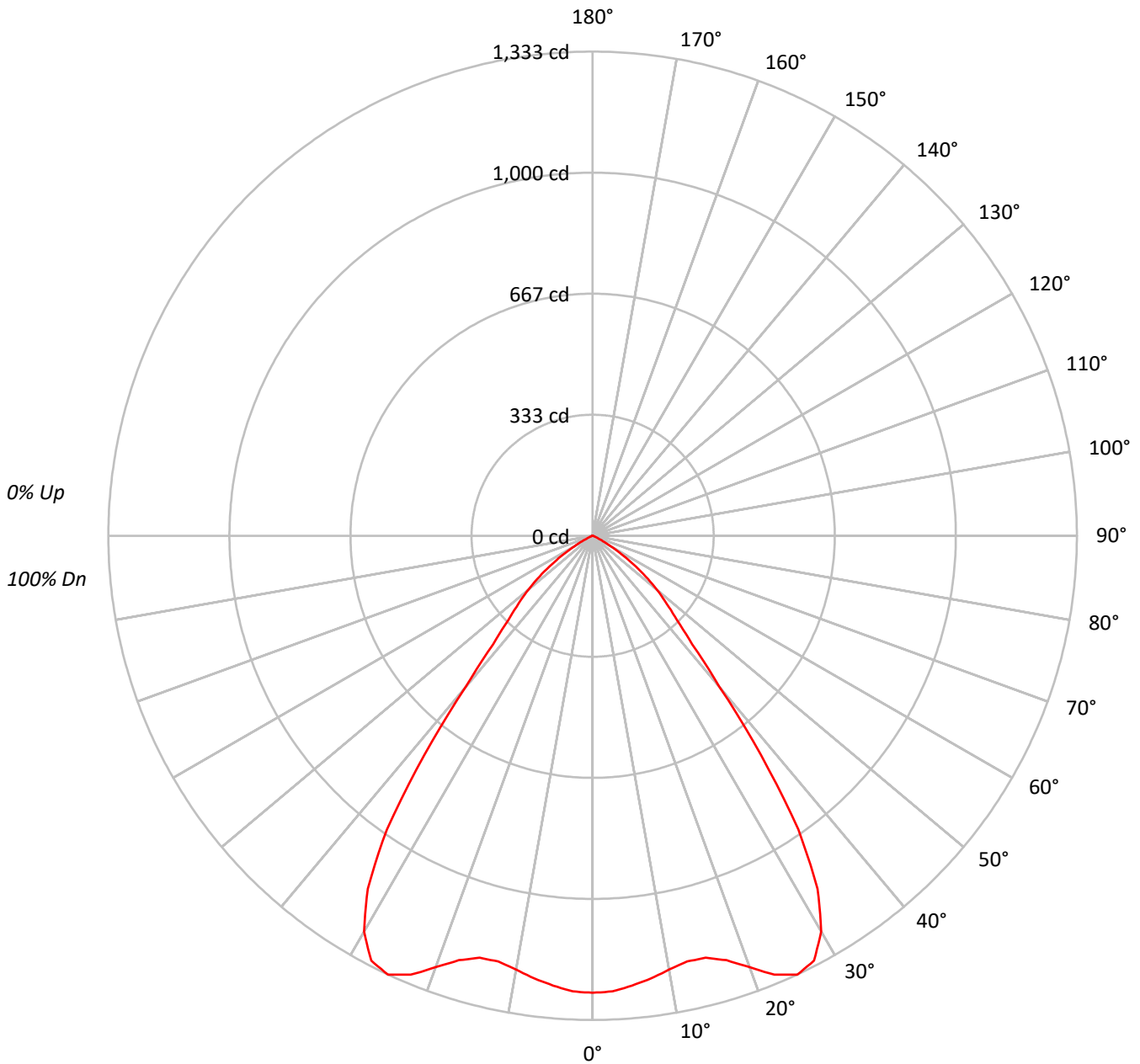
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P584074

CATALOG NUMBER: HC820D010-HM80520935-81WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P584074

CATALOG NUMBER: HC820D010-HM80520935-81WDBB

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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38798
5°	38479
10°	37969
15°	38402
20°	41472
25°	45351
30°	44800
35°	37162
40°	21874
45°	14291
50°	11082
55°	7360
60°	3577
65°	1109
70°	370
75°	322
80°	249
85°	495



TEST NUMBER: P584074

CATALOG NUMBER: HC820D010-HM80520935-81WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	5.7
10°-20°	345.6	16.7
20°-30°	604.2	29.2
30°-40°	587.8	28.4
40°-50°	267.3	12.9
50°-60°	123.9	6.0
60°-70°	20.7	1.0
70°-80°	2.5	0.1
80°-90°	1.0	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°	1067.6	51.6
0°-40°	1655.3	79.9
0°-60°	2046.6	98.8
0°-90°	2070.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2070.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1258	
5°	1243	118
15°	1203	346
25°	1333	604
35°	987	588
45°	328	267
55°	137	124
65°	15	21
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P584074

CATALOG NUMBER: HC820D010-HM80520935-81WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1258.2
2.5°	1255.5
5°	1243.1
7.5°	1229.3
10°	1212.6
12.5°	1200.2
15°	1202.9
17.5°	1225.1
20°	1263.8
22.5°	1308.0
25°	1332.9
27.5°	1319.1
30°	1258.2
32.5°	1151.9
35°	987.2
37.5°	760.5
40°	543.4
42.5°	405.2
45°	327.7
47.5°	276.6
50°	231.0
52.5°	183.9
55°	136.9
57.5°	94.0
60°	58.0
62.5°	31.8
65°	15.2
67.5°	6.9
70°	4.1
72.5°	2.7
75°	2.7
77.5°	1.4
80°	1.4
82.5°	1.4
85°	1.4
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)