

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: P584261

Luminaire Tested: **HC830D010-HM82555830-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584261
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: HC830D010-HM82555830-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3250.1 lumens
Efficiency: N/A
Efficacy: 116.1 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

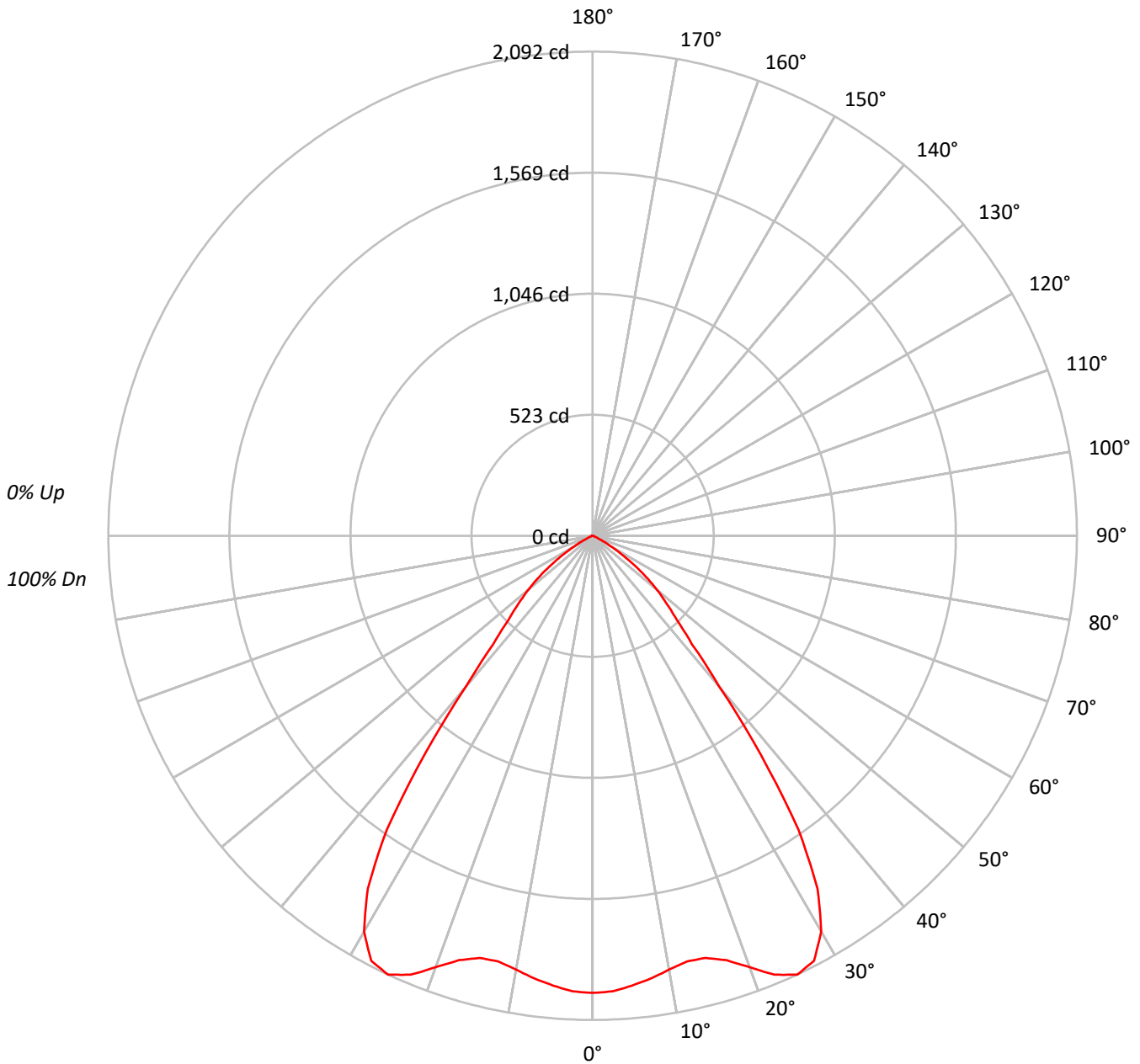
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	60896
5°	60388
10°	59593
15°	60273
20°	65089
25°	71175
30°	70316
35°	58330
40°	34333
45°	22433
50°	17385
55°	11553
60°	5625
65°	1744
70°	586
75°	524
80°	373
85°	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	5.7
10°-20°	542.4	16.7
20°-30°	948.3	29.2
30°-40°	922.5	28.4
40°-50°	419.6	12.9
50°-60°	194.5	6.0
60°-70°	32.6	1.0
70°-80°	4.0	0.1
80°-90°	1.4	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°	1675.5	51.6
0°-40°	2598.0	79.9
0°-60°	3212.1	98.8
0°-90°	3250.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3250.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1975	
5°	1951	185
15°	1888	542
25°	2092	948
35°	1550	923
45°	514	420
55°	215	195
65°	24	33
75°	4	4
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1974.8
2.5°	1970.4
5°	1950.9
7.5°	1929.3
10°	1903.2
12.5°	1883.6
15°	1888.0
17.5°	1922.7
20°	1983.5
22.5°	2052.9
25°	2091.9
27.5°	2070.3
30°	1974.8
32.5°	1807.8
35°	1549.5
37.5°	1193.5
40°	852.9
42.5°	635.9
45°	514.4
47.5°	434.0
50°	362.4
52.5°	288.6
55°	214.9
57.5°	147.6
60°	91.2
62.5°	49.9
65°	23.9
67.5°	10.8
70°	6.5
72.5°	4.4
75°	4.4
77.5°	2.1
80°	2.1
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)