

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: P581708

Luminaire Tested: **HC615D010-HM60525827-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525827-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1559.6 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

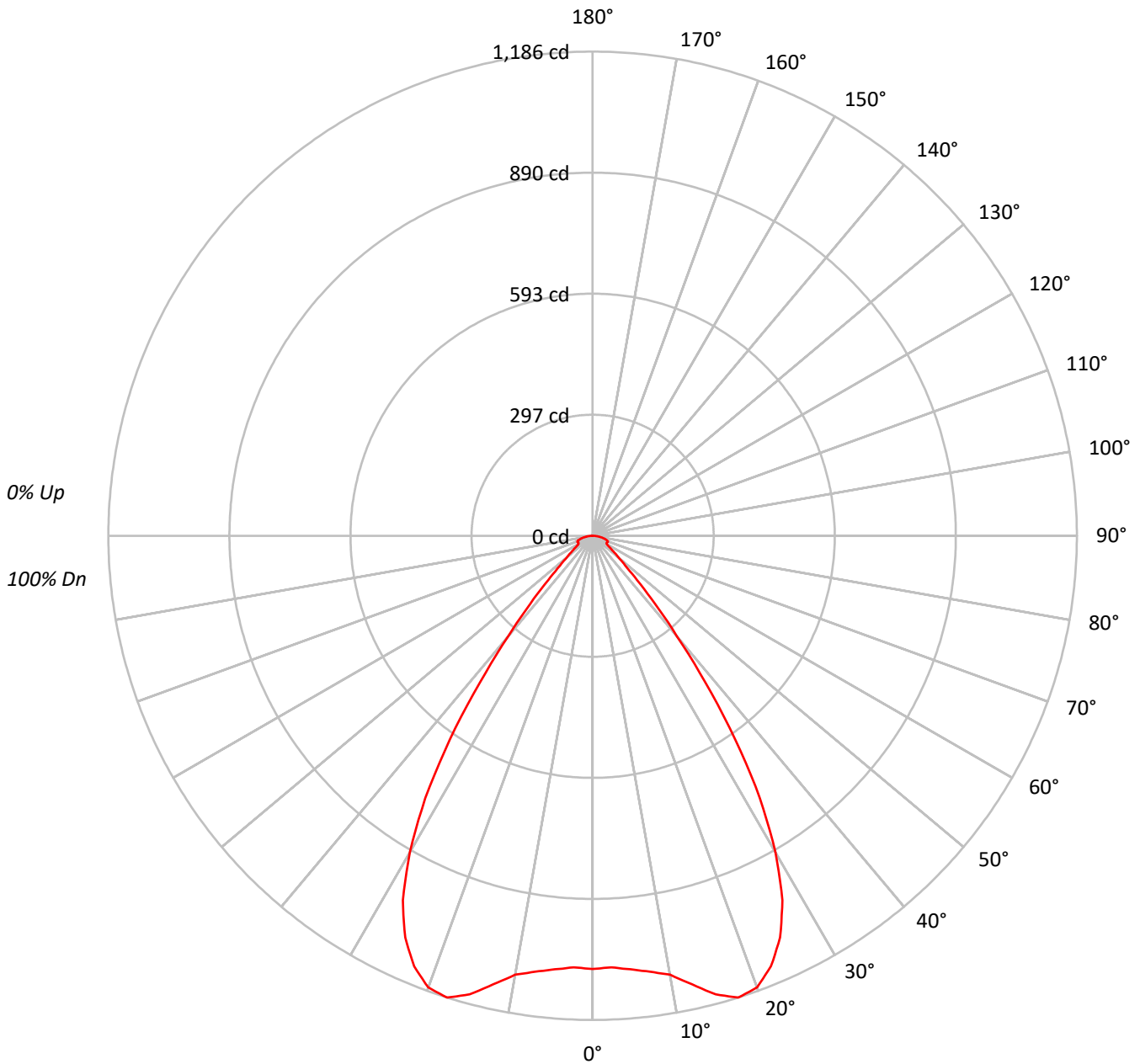
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58170
5°	58662
10°	60776
15°	66011
20°	68670
25°	65683
30°	56680
35°	40810
40°	22993
45°	11916
50°	7104
55°	5123
60°	4342
65°	5020
70°	6347
75°	6736
80°	6566
85°	6227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	6.6
10°-20°	328.1	21.0
20°-30°	490.4	31.4
30°-40°	374.8	24.0
40°-50°	130.9	8.4
50°-60°	49.9	3.2
60°-70°	39.1	2.5
70°-80°	33.1	2.1
80°-90°	10.7	0.7
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°	921.0	59.1
0°-40°	1295.8	83.1
0°-60°	1476.7	94.7
0°-90°	1559.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1061	
5°	1066	103
15°	1163	328
25°	1086	490
35°	610	375
45°	154	131
55°	54	50
65°	39	39
75°	32	33
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1061.1
2.5°	1058.0
5°	1066.0
7.5°	1076.9
10°	1091.8
12.5°	1125.5
15°	1163.1
17.5°	1186.0
20°	1177.1
22.5°	1141.4
25°	1085.9
27.5°	1006.5
30°	895.4
32.5°	762.6
35°	609.8
37.5°	452.2
40°	321.3
42.5°	225.1
45°	153.7
47.5°	108.1
50°	83.3
52.5°	65.5
55°	53.6
57.5°	43.6
60°	39.6
62.5°	38.7
65°	38.7
67.5°	40.6
70°	39.6
72.5°	36.7
75°	31.8
77.5°	26.8
80°	20.8
82.5°	14.9
85°	9.9
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)