

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: P582187

Luminaire Tested: **HC630D010-HM63040840-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040840-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3391.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

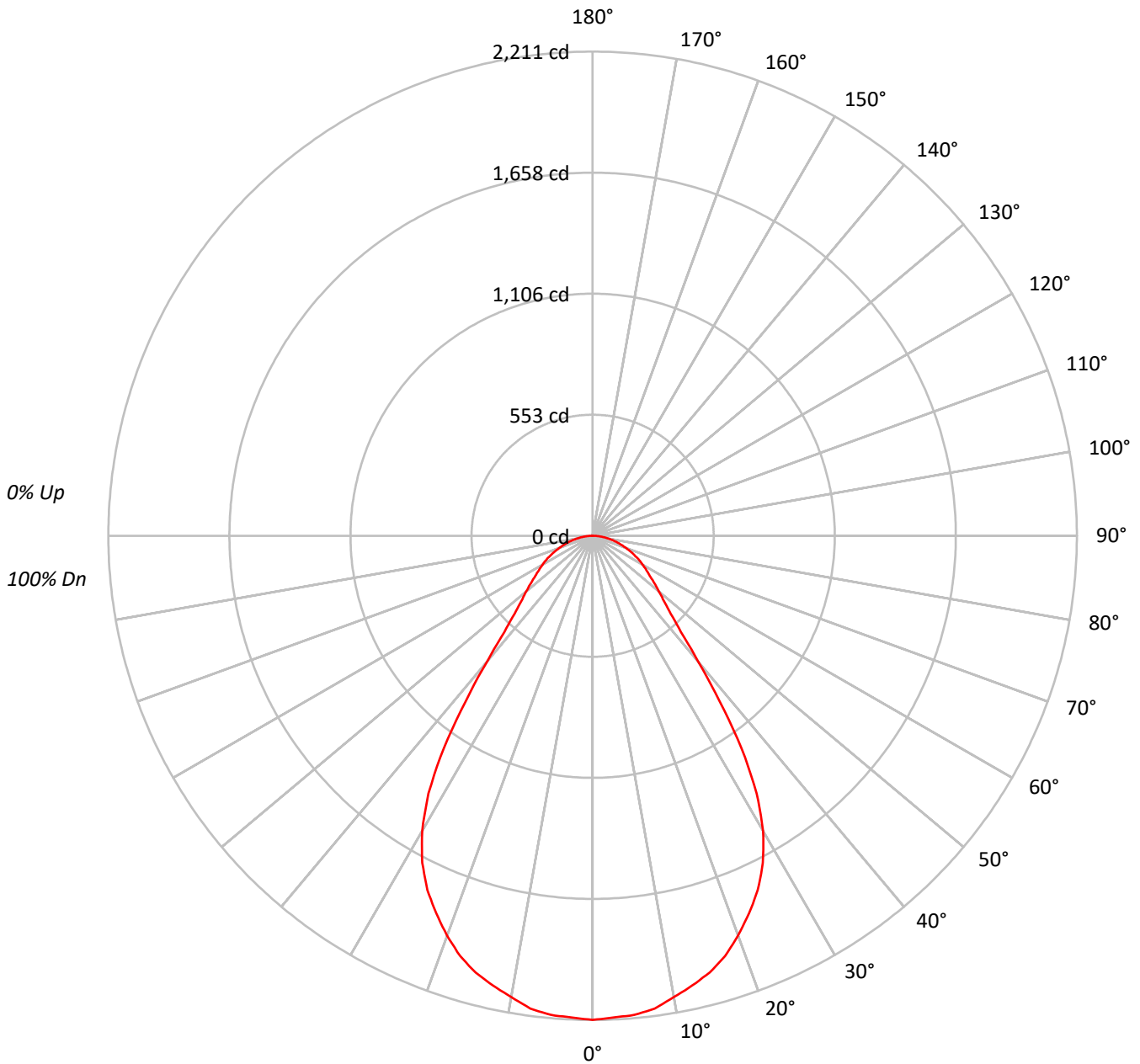
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121196
5°	120867
10°	119069
15°	117180
20°	113328
25°	107940
30°	98559
35°	79351
40°	53479
45°	39004
50°	33705
55°	30441
60°	28890
65°	27344
70°	25725
75°	24358
80°	22667
85°	21071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.9	6.1
10°-20°	579.8	17.1
20°-30°	814.6	24.0
30°-40°	725.2	21.4
40°-50°	405.3	12.0
50°-60°	288.7	8.5
60°-70°	210.1	6.2
70°-80°	121.6	3.6
80°-90°	37.8	1.1
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°	1602.3	47.3
0°-40°	2327.5	68.6
0°-60°	3021.5	89.1
0°-90°	3391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2211	
5°	2196	208
15°	2065	580
25°	1784	815
35°	1186	725
45°	503	405
55°	318	289
65°	211	210
75°	115	122
85°	34	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2210.8
2.5°	2201.3
5°	2196.4
7.5°	2177.3
10°	2139.0
12.5°	2103.1
15°	2064.7
17.5°	2012.0
20°	1942.6
22.5°	1865.9
25°	1784.5
27.5°	1683.9
30°	1557.0
32.5°	1394.1
35°	1185.7
37.5°	951.0
40°	747.3
42.5°	596.4
45°	503.1
47.5°	440.8
50°	395.2
52.5°	354.6
55°	318.5
57.5°	289.9
60°	263.5
62.5°	239.6
65°	210.8
67.5°	186.8
70°	160.5
72.5°	136.5
75°	115.0
77.5°	93.5
80°	71.8
82.5°	52.7
85°	33.5
87.5°	16.8
90°	0.0



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— 0°-180°







(END OF REPORT)