

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: P582150

Luminaire Tested: **HC630D010-HM63040830-61NDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040830-61NDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2989.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

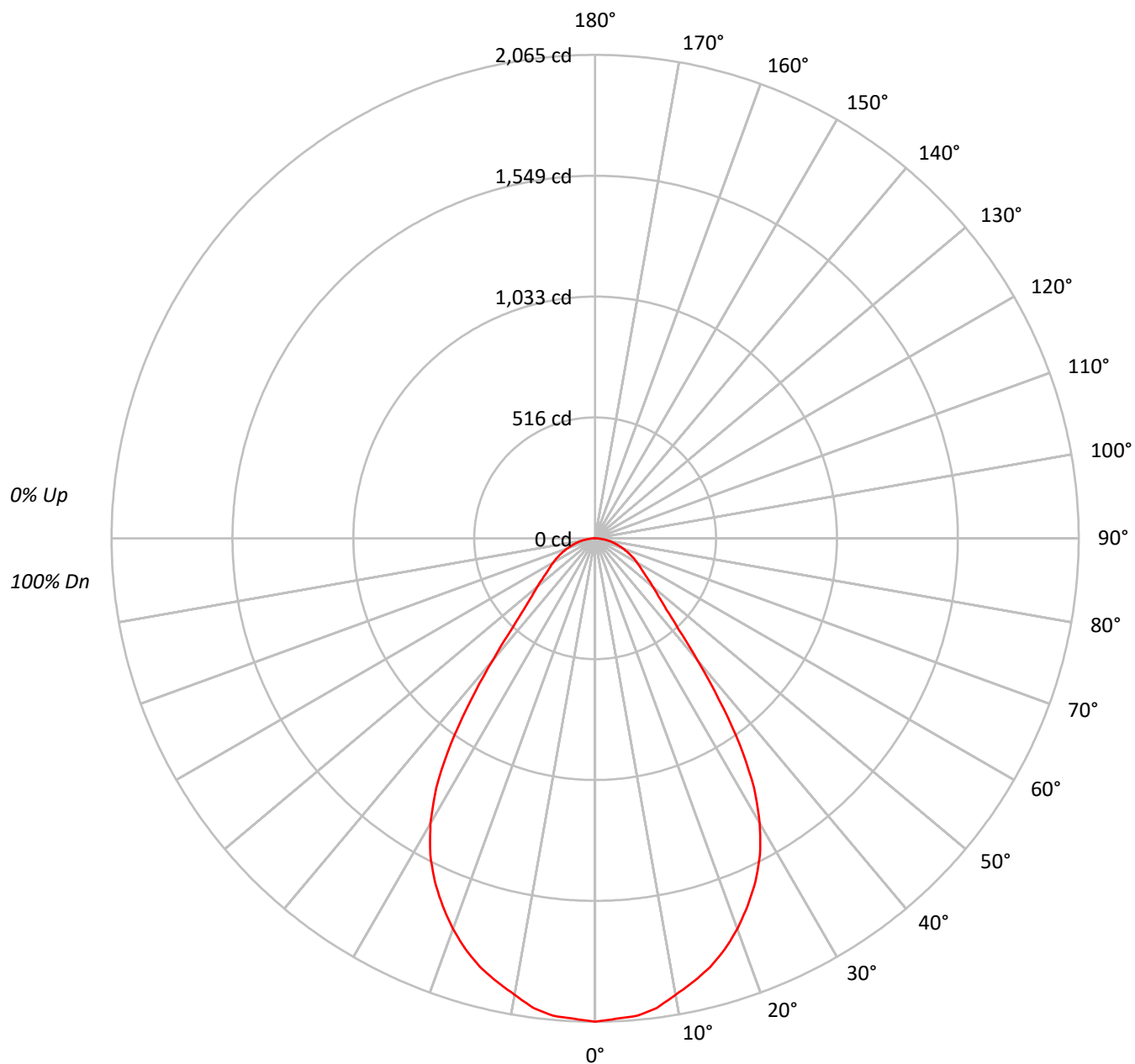
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	83	86	83	81	79		
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70		
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63		
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57		
6	79	68	61	55	77	67	60	55	66	59	55	64	59	54	63	58	54	52		
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44		
9	66	55	48	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113215
5°	112679
10°	110196
15°	107606
20°	103562
25°	97941
30°	89007
35°	72043
40°	48584
45°	33391
50°	27359
55°	23932
60°	22641
65°	21377
70°	20067
75°	19084
80°	17332
85°	15159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.3	6.5
10°-20°	532.4	17.8
20°-30°	739.8	24.7
30°-40°	658.6	22.0
40°-50°	349.7	11.7
50°-60°	228.7	7.6
60°-70°	163.9	5.5
70°-80°	95.0	3.2
80°-90°	27.8	0.9
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°	1465.5	49.0
0°-40°	2124.1	71.1
0°-60°	2702.4	90.4
0°-90°	2989.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2065	
5°	2048	193
15°	1896	532
25°	1619	740
35°	1076	659
45°	431	350
55°	250	229
65°	165	164
75°	90	95
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2065.2
2.5°	2054.2
5°	2047.6
7.5°	2023.4
10°	1979.6
12.5°	1940.0
15°	1896.0
17.5°	1841.0
20°	1775.2
22.5°	1700.5
25°	1619.2
27.5°	1524.8
30°	1406.1
32.5°	1263.3
35°	1076.5
37.5°	870.0
40°	678.9
42.5°	527.3
45°	430.7
47.5°	366.9
50°	320.8
52.5°	283.5
55°	250.4
57.5°	226.3
60°	206.5
62.5°	186.8
65°	164.8
67.5°	145.1
70°	125.2
72.5°	107.6
75°	90.1
77.5°	72.5
80°	54.9
82.5°	39.6
85°	24.1
87.5°	10.9
90°	0.0



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— 0°-180°







(END OF REPORT)