

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: P582154

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC630D010-HM63040830-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" 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: 2898.9 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

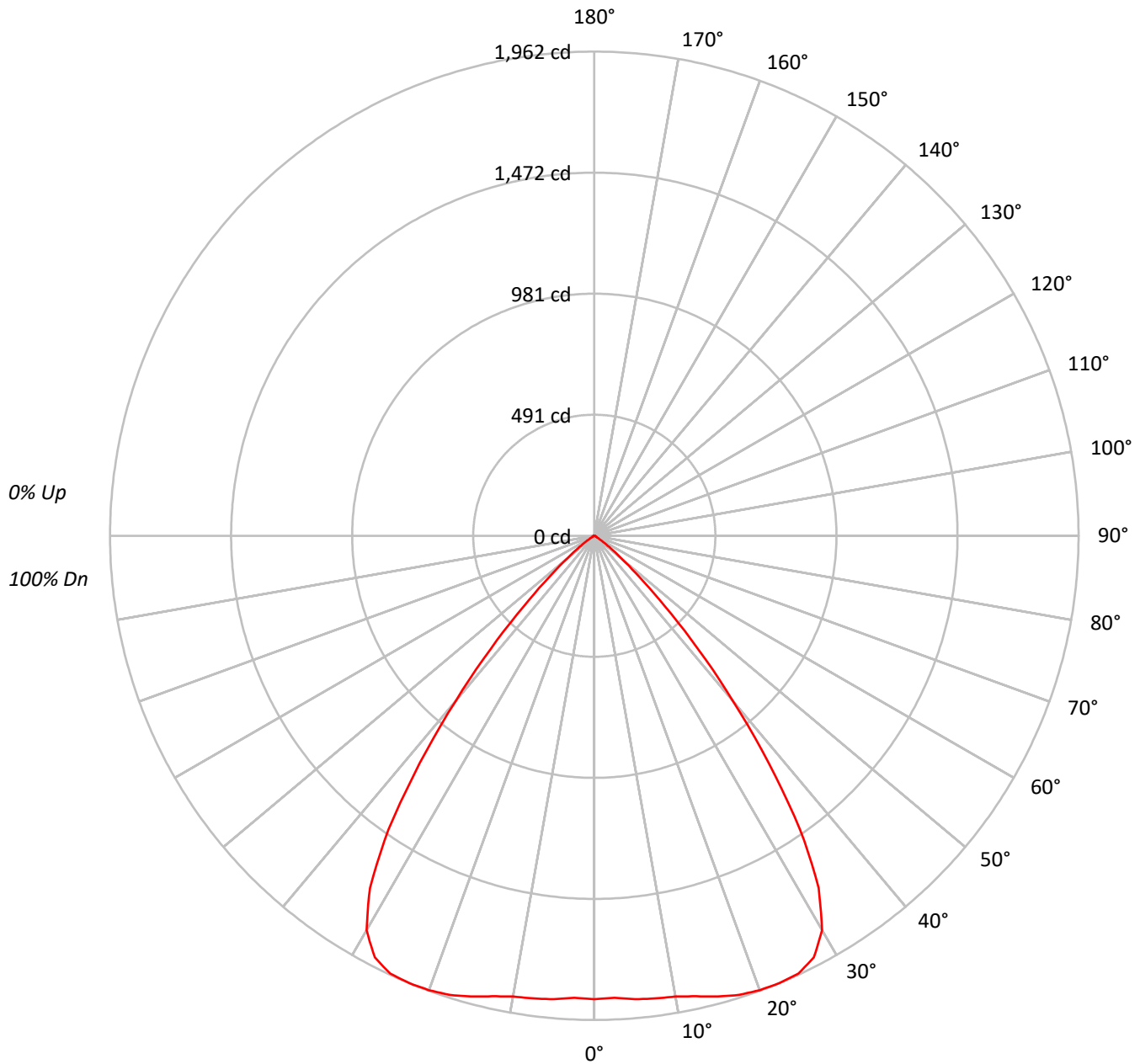
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92		
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85		
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77		
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71		
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65		
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59		
7	79	69	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54		
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50		
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46		
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102958
5°	103714
10°	105520
15°	109711
20°	114308
25°	118386
30°	116803
35°	97313
40°	62403
45°	31166
50°	12358
55°	4196
60°	1195
65°	843
70°	705
75°	932
80°	663
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	6.2
10°-20°	548.3	18.9
20°-30°	895.2	30.9
30°-40°	877.5	30.3
40°-50°	336.4	11.6
50°-60°	49.3	1.7
60°-70°	7.3	0.3
70°-80°	3.7	0.1
80°-90°	0.9	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°	1623.7	56.0
0°-40°	2501.2	86.3
0°-60°	2887.0	99.6
0°-90°	2898.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1878	
5°	1885	180
15°	1933	548
25°	1957	895
35°	1454	878
45°	402	336
55°	44	49
65°	6	7
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1878.1
2.5°	1873.7
5°	1884.7
7.5°	1891.2
10°	1895.6
12.5°	1911.1
15°	1933.1
17.5°	1950.6
20°	1959.4
22.5°	1961.6
25°	1957.2
27.5°	1926.4
30°	1845.2
32.5°	1691.4
35°	1454.1
37.5°	1162.0
40°	872.0
42.5°	621.6
45°	402.0
47.5°	246.0
50°	144.9
52.5°	83.5
55°	43.9
57.5°	19.7
60°	10.9
62.5°	8.8
65°	6.5
67.5°	6.5
70°	4.4
72.5°	4.4
75°	4.4
77.5°	2.1
80°	2.1
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)