

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: P581935

Luminaire Tested: **HC620D010-HM60525930-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581935
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: HC620D010-HM60525930-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1747.4 lumens
Efficiency: N/A
Efficacy: 87.4 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

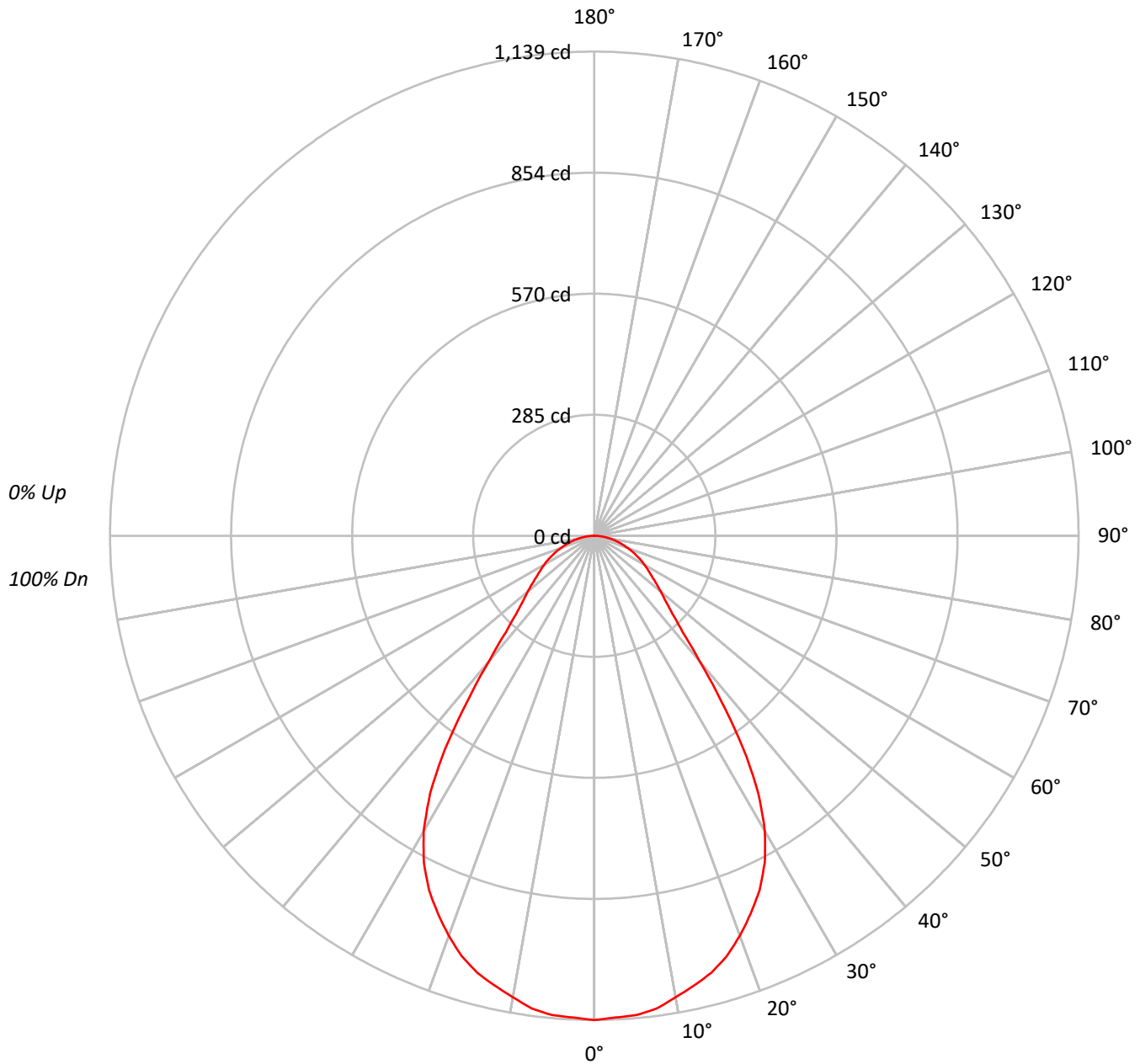
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	62457
5°	62288
10°	61360
15°	60386
20°	58397
25°	55618
30°	50786
35°	40890
40°	27559
45°	20095
50°	17373
55°	15694
60°	14878
65°	14100
70°	13255
75°	12560
80°	11681
85°	10882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	6.1
10°-20°	298.8	17.1
20°-30°	419.8	24.0
30°-40°	373.7	21.4
40°-50°	208.9	12.0
50°-60°	148.8	8.5
60°-70°	108.3	6.2
70°-80°	62.7	3.6
80°-90°	19.5	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°	825.7	47.3
0°-40°	1199.4	68.6
0°-60°	1557.0	89.1
0°-90°	1747.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1747.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1139	
5°	1132	107
15°	1064	299
25°	920	420
35°	611	374
45°	259	209
55°	164	149
65°	109	108
75°	59	63
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1139.3
2.5°	1134.4
5°	1131.9
7.5°	1122.0
10°	1102.3
12.5°	1083.7
15°	1064.0
17.5°	1036.8
20°	1001.0
22.5°	961.6
25°	919.5
27.5°	867.8
30°	802.3
32.5°	718.4
35°	611.0
37.5°	490.0
40°	385.1
42.5°	307.4
45°	259.2
47.5°	227.2
50°	203.7
52.5°	182.6
55°	164.2
57.5°	149.3
60°	135.7
62.5°	123.4
65°	108.7
67.5°	96.3
70°	82.7
72.5°	70.4
75°	59.3
77.5°	48.2
80°	37.0
82.5°	27.2
85°	17.3
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)