

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: P581845

Luminaire Tested: **HC620D010-HM60525827-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581845
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-HM60525827-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1895.4 lumens
Efficiency: N/A
Efficacy: 94.8 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

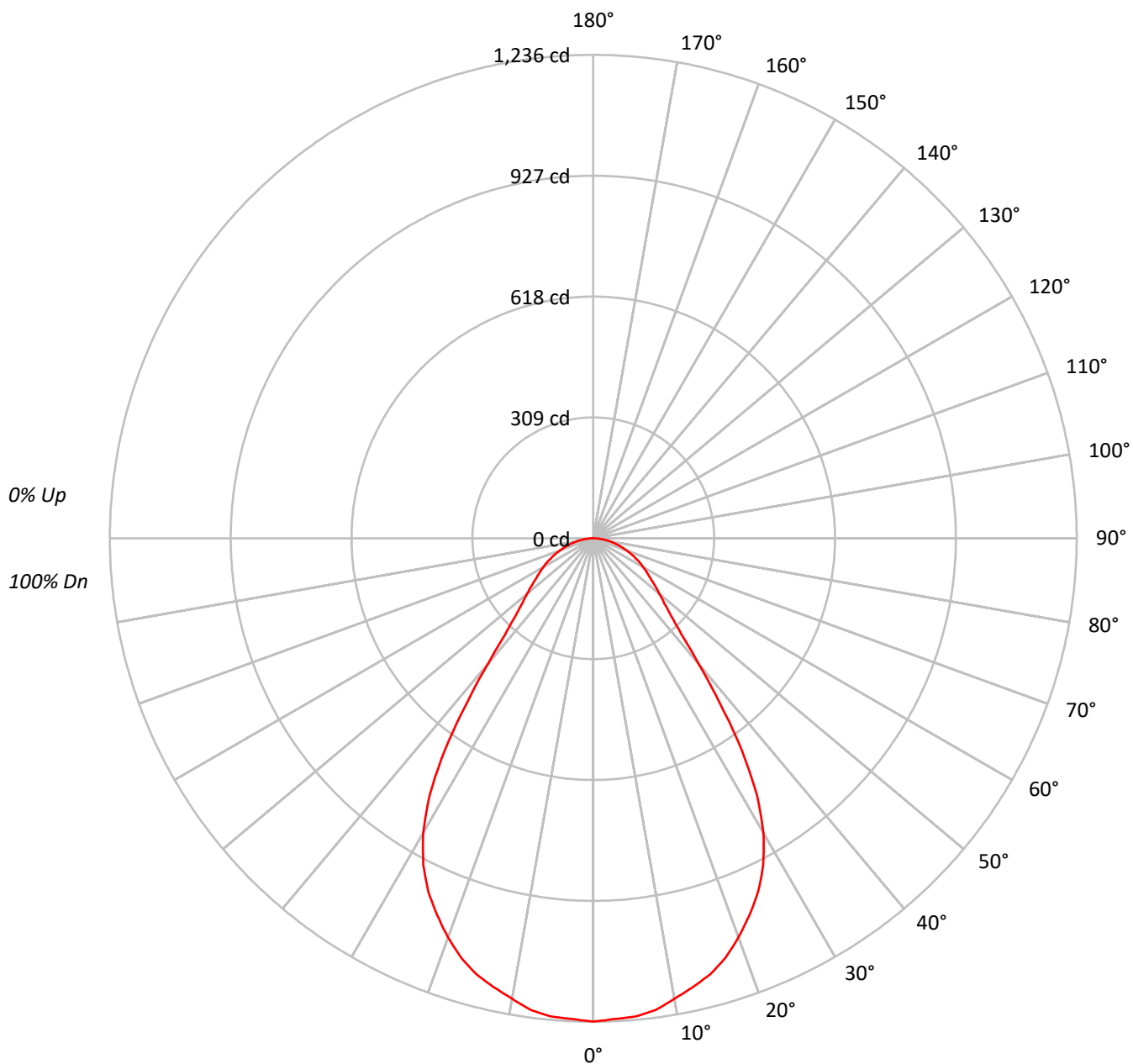
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	67747
5°	67560
10°	66549
15°	65500
20°	63344
25°	60336
30°	55091
35°	44350
40°	29892
45°	21801
50°	18839
55°	17022
60°	16150
65°	15280
70°	14377
75°	13598
80°	12691
85°	11762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	6.1
10°-20°	324.1	17.1
20°-30°	455.3	24.0
30°-40°	405.3	21.4
40°-50°	226.5	11.9
50°-60°	161.4	8.5
60°-70°	117.4	6.2
70°-80°	68.0	3.6
80°-90°	21.1	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°	895.6	47.3
0°-40°	1300.9	68.6
0°-60°	1688.8	89.1
0°-90°	1895.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1895.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1236	
5°	1228	116
15°	1154	324
25°	998	455
35°	663	405
45°	281	226
55°	178	161
65°	118	117
75°	64	68
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1235.8
2.5°	1230.4
5°	1227.7
7.5°	1217.0
10°	1195.5
12.5°	1175.5
15°	1154.1
17.5°	1124.6
20°	1085.8
22.5°	1042.9
25°	997.5
27.5°	941.2
30°	870.3
32.5°	779.2
35°	662.7
37.5°	531.5
40°	417.7
42.5°	333.3
45°	281.2
47.5°	246.3
50°	220.9
52.5°	198.2
55°	178.1
57.5°	162.0
60°	147.3
62.5°	133.9
65°	117.8
67.5°	104.5
70°	89.7
72.5°	76.4
75°	64.2
77.5°	52.2
80°	40.2
82.5°	29.5
85°	18.7
87.5°	9.4
90°	0.0



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— 0°-180°







(END OF REPORT)