

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: P583403

Luminaire Tested: **HC607D010-HM60525935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 817.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

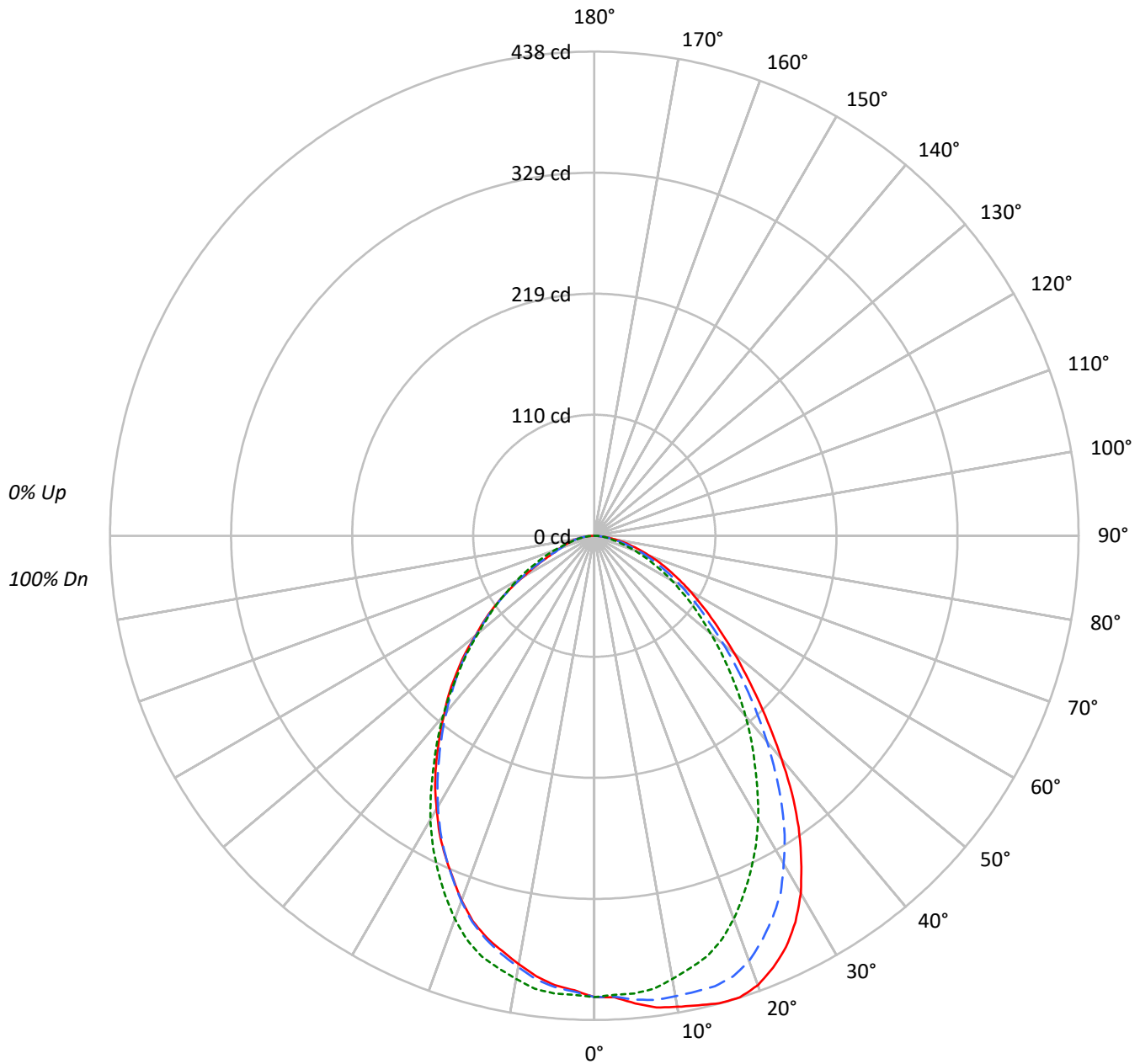
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52		
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38		
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34		
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22876	22876	22876
5°	23366	22870	22458
10°	24087	22656	21899
15°	24847	22355	21357
20°	25243	21515	20483
25°	24830	20239	19314
30°	23637	18762	18047
35°	21556	16938	16671
40°	18842	15221	15136
45°	16226	13389	13699
50°	14098	11676	11914
55°	12310	10246	10351
60°	10931	8870	8124
65°	9755	7472	6213
70°	8591	6123	5209
75°	7371	4829	4935
80°	5935	4136	4862
85°	3900	3585	4277



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	4.8
10°-20°	112.5	13.8
20°-30°	160.6	19.6
30°-40°	168.2	20.6
40°-50°	141.6	17.3
50°-60°	100.8	12.3
60°-70°	59.0	7.2
70°-80°	27.9	3.4
80°-90°	7.2	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°	312.5	38.2
0°-40°	480.7	58.8
0°-60°	723.1	88.5
0°-90°	817.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	417	417	417	417	417	
5°	425	421	416	410	408	41
15°	438	422	394	378	376	124
25°	410	381	335	319	319	188
35°	322	295	253	244	249	200
45°	209	194	173	173	177	162
55°	129	118	107	107	108	116
65°	75	67	58	48	48	75
75°	35	29	23	22	23	37
85°	6	5	6	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	417.3	417.3	417.3	417.3	417.3	417.3	417.3	417.3	417.3
2.5°	417.9	417.9	417.3	416.7	415.6	413.9	412.8	411.6	411.6
5°	424.6	423.5	421.2	418.4	415.6	412.2	409.9	408.1	408.1
7.5°	430.4	428.2	423.5	418.4	413.3	408.7	404.7	402.4	401.9
10°	432.7	429.9	422.9	415.0	407.0	400.7	396.2	393.4	393.4
12.5°	435.0	431.6	422.4	411.1	400.7	392.2	387.6	385.3	384.8
15°	437.8	433.3	421.8	407.5	393.9	384.2	378.0	376.3	376.3
17.5°	437.8	432.1	417.9	400.2	383.1	372.2	366.5	364.8	365.4
20°	432.7	426.3	409.4	387.6	368.8	357.5	351.7	350.6	351.1
22.5°	422.9	415.6	396.2	372.8	352.2	340.4	335.1	335.1	334.6
25°	410.5	402.4	381.4	356.9	334.6	322.7	318.7	319.3	319.3
27.5°	393.9	385.9	364.8	338.7	316.3	304.4	301.6	302.7	303.3
30°	373.4	364.8	342.6	316.9	296.4	284.5	282.8	284.5	285.1
32.5°	348.3	342.1	320.4	294.1	274.8	264.6	264.0	265.7	268.0
35°	322.1	315.2	295.3	271.4	253.1	244.5	244.5	247.4	249.1
37.5°	293.6	286.8	268.5	248.6	233.2	225.1	226.3	229.2	229.8
40°	263.3	258.2	242.8	225.7	212.7	206.3	208.0	211.0	211.5
42.5°	234.9	230.3	217.8	202.4	192.7	188.1	190.3	193.9	195.0
45°	209.3	204.1	193.9	180.7	172.7	170.4	173.3	175.6	176.7
47.5°	185.8	181.3	172.7	160.8	155.1	153.9	156.8	157.9	159.1
50°	165.3	160.8	152.2	141.4	136.9	136.9	139.1	140.3	139.7
52.5°	145.4	141.4	133.4	124.3	121.5	121.5	123.2	123.7	124.9
55°	128.8	124.9	117.9	109.4	107.2	106.0	107.2	107.2	108.3
57.5°	113.4	110.0	103.8	95.7	92.9	91.8	91.2	90.6	91.8
60°	99.7	96.9	90.1	83.3	80.9	78.1	75.8	73.5	74.1
62.5°	87.2	84.4	78.1	71.3	69.0	65.0	62.1	59.3	60.4
65°	75.2	72.4	66.7	61.0	57.6	53.0	48.5	46.8	47.9
67.5°	64.5	62.1	56.4	50.8	47.9	42.7	38.2	38.2	38.7
70°	53.6	51.3	46.8	41.6	38.2	33.7	32.0	32.5	32.5
72.5°	43.8	42.1	37.6	33.1	29.7	26.7	26.7	27.4	28.0
75°	34.8	33.7	29.1	25.0	22.8	21.1	22.2	22.8	23.3
77.5°	26.7	25.0	21.6	18.8	17.1	17.7	18.8	19.4	19.9
80°	18.8	18.2	15.4	13.7	13.1	13.7	14.8	15.4	15.4
82.5°	12.0	11.4	9.7	9.2	9.2	9.7	10.9	10.9	10.9
85°	6.2	5.7	5.1	5.1	5.7	6.2	6.8	6.8	6.8
87.5°	2.3	1.7	2.3	2.3	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)