

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: P583402

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525935-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 789.2 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

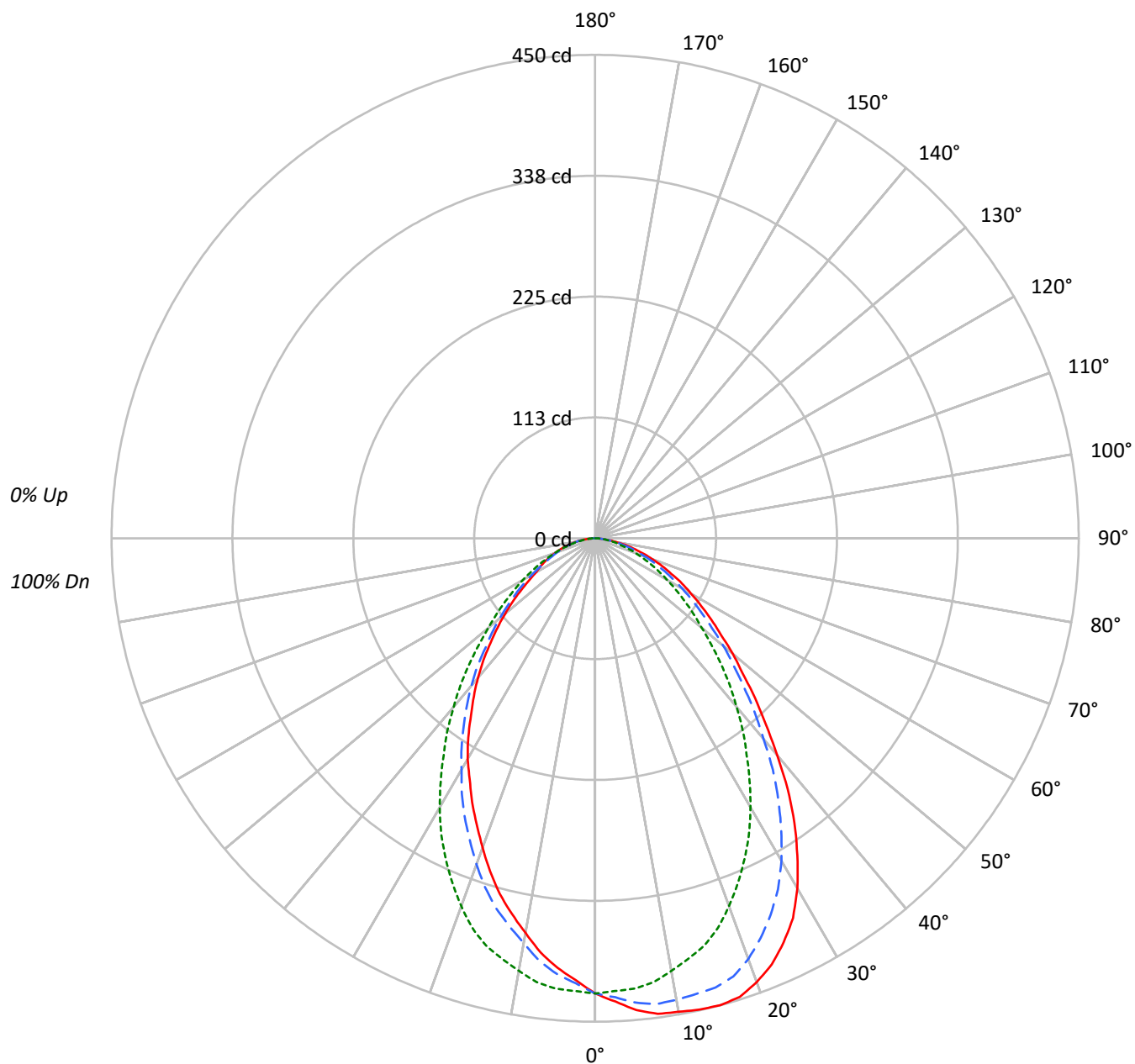
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76		
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66		
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	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	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23227	23227	23227
5°	24263	23156	22089
10°	24916	22762	20763
15°	25534	22270	19450
20°	25646	21259	17863
25°	25108	19900	16386
30°	23826	18300	15021
35°	21643	16443	13472
40°	18850	14649	12123
45°	16312	12823	10652
50°	14251	11036	9330
55°	12597	9701	8009
60°	11315	8497	6940
65°	10144	7394	6732
70°	9040	6299	6299
75°	7837	5295	5931
80°	6282	4514	5398
85°	4277	3900	4655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	5.0
10°-20°	110.7	14.0
20°-30°	154.3	19.5
30°-40°	158.9	20.1
40°-50°	131.7	16.7
50°-60°	94.7	12.0
60°-70°	60.3	7.6
70°-80°	31.0	3.9
80°-90°	7.9	1.0
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°	304.8	38.6
0°-40°	463.7	58.8
0°-60°	690.1	87.4
0°-90°	789.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	789.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	424	424	424	424	424	
5°	441	434	421	407	401	42
15°	450	433	392	356	343	127
25°	415	387	329	287	271	190
35°	323	297	246	213	201	201
45°	210	196	165	144	137	163
55°	132	121	102	90	84	119
65°	78	70	57	50	52	78
75°	37	32	25	26	28	40
85°	7	6	6	7	7	9
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°	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7	423.7
2.5°	431.7	430.0	427.7	425.4	421.9	418.0	414.6	413.4	411.7
5°	440.9	438.5	433.9	428.3	420.8	413.4	407.2	403.1	401.4
7.5°	446.5	443.7	437.3	427.7	416.8	406.1	396.9	391.2	389.0
10°	447.6	444.8	436.2	423.1	408.9	394.1	382.6	375.8	373.0
12.5°	449.3	445.4	434.5	419.1	400.9	383.7	369.5	361.0	358.1
15°	449.9	445.4	432.8	414.0	392.4	371.9	356.4	346.1	342.7
17.5°	447.6	442.5	427.7	404.8	380.3	358.7	340.5	329.6	325.1
20°	439.6	433.9	416.8	391.2	364.4	341.6	322.8	311.3	306.2
22.5°	429.4	421.9	402.6	375.2	347.3	323.4	304.6	293.1	288.0
25°	415.1	408.3	386.6	357.6	329.0	304.0	286.9	274.9	270.9
27.5°	398.6	390.7	368.3	339.3	310.2	285.2	268.6	257.8	252.7
30°	376.4	368.9	346.7	317.6	289.1	265.7	248.6	239.5	237.3
32.5°	350.1	343.9	322.2	294.8	267.4	245.7	231.5	221.8	219.6
35°	323.4	315.9	297.1	271.5	245.7	226.4	213.2	204.7	201.3
37.5°	294.2	287.4	271.5	248.6	225.8	207.6	196.1	188.8	185.4
40°	263.4	258.3	243.5	225.2	204.7	188.8	179.0	172.8	169.4
42.5°	235.0	229.8	219.6	202.5	185.4	171.1	162.5	156.8	154.0
45°	210.4	205.9	195.6	180.7	165.4	153.4	144.2	140.3	137.4
47.5°	185.9	183.7	174.5	160.8	146.5	136.3	130.1	125.4	123.2
50°	167.1	164.3	155.7	141.4	129.4	121.5	115.8	111.7	109.4
52.5°	147.7	144.8	136.9	124.9	115.2	107.7	102.1	98.7	96.4
55°	131.8	129.4	120.9	110.0	101.5	95.3	90.1	86.1	83.8
57.5°	116.9	114.7	106.6	96.4	88.9	83.3	78.7	75.2	72.4
60°	103.2	101.5	93.5	83.8	77.5	71.8	67.9	65.0	63.3
62.5°	91.2	87.8	81.0	72.4	66.7	62.2	58.1	56.4	57.6
65°	78.2	76.4	69.6	62.2	57.0	52.5	49.6	50.8	51.9
67.5°	67.3	65.0	59.3	52.5	47.9	44.5	42.7	45.1	45.7
70°	56.4	54.2	49.1	43.4	39.3	37.0	37.0	38.7	39.3
72.5°	46.2	44.5	39.9	35.3	32.5	30.8	32.0	33.1	33.7
75°	37.0	35.3	32.0	28.0	25.0	25.0	26.3	27.4	28.0
77.5°	28.6	27.4	23.9	21.1	19.9	19.9	21.1	21.6	22.2
80°	19.9	18.8	17.1	15.4	14.3	15.4	16.5	16.5	17.1
82.5°	13.1	12.6	11.4	10.3	10.3	10.9	11.4	12.0	12.0
85°	6.8	6.8	6.2	5.7	6.2	6.8	6.8	7.4	7.4
87.5°	2.3	2.3	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)