

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: P593051

Luminaire Tested: **HC607D010-HM60525950-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593051
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-HM60525950-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 827.4 lumens
Efficiency: N/A
Efficacy: 103.4 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

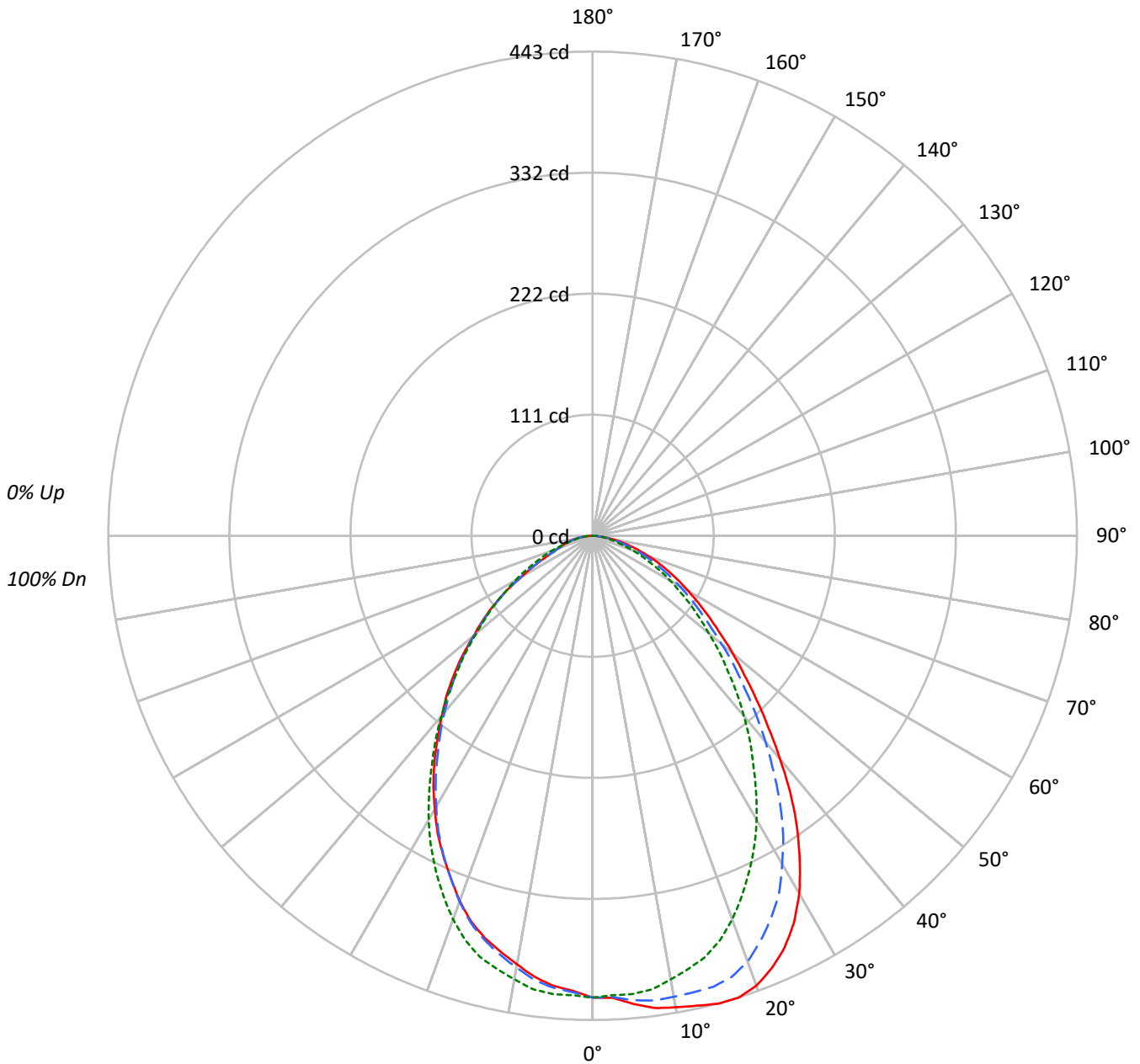
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593051

CATALOG NUMBER: HC607D010-HM60525950-61WWWB

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58				58				
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52				52				
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	52	48	46				46				
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42				42				
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38				38				
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34				34				
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23162	23162	23162
5°	23663	23156	22744
10°	24387	22940	22166
15°	25153	22634	21618
20°	25558	21784	20739
25°	25139	20493	19550
30°	23934	18997	18269
35°	21824	17152	16878
40°	19086	15407	15322
45°	16428	13560	13870
50°	14268	11821	12059
55°	12463	10370	10485
60°	11085	8980	8223
65°	9871	7562	6291
70°	8703	6187	5273
75°	7456	4893	5020
80°	5998	4199	4925
85°	3963	3648	4340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	4.8
10°-20°	113.9	13.8
20°-30°	162.6	19.6
30°-40°	170.3	20.6
40°-50°	143.4	17.3
50°-60°	102.0	12.3
60°-70°	59.7	7.2
70°-80°	28.3	3.4
80°-90°	7.3	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°	316.4	38.2
0°-40°	486.7	58.8
0°-60°	732.1	88.5
0°-90°	827.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	827.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	422	422	422	422	422	
5°	430	427	421	415	413	41
15°	443	427	399	383	381	125
25°	416	386	339	323	323	190
35°	326	299	256	248	252	203
45°	212	196	175	176	179	164
55°	130	120	108	108	110	118
65°	76	68	58	49	48	76
75°	35	30	23	22	24	38
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°	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5	422.5
2.5°	423.1	423.1	422.5	421.9	420.8	419.1	417.9	416.7	416.7
5°	430.0	428.8	426.6	423.6	420.8	417.3	415.0	413.3	413.3
7.5°	435.8	433.5	428.8	423.6	418.4	413.9	409.8	407.5	407.0
10°	438.1	435.2	428.3	420.2	412.1	405.7	401.2	398.2	398.2
12.5°	440.4	436.9	427.7	416.2	405.7	397.1	392.5	390.2	389.6
15°	443.2	438.7	427.1	412.6	398.8	389.1	382.7	380.9	380.9
17.5°	443.2	437.6	423.1	405.2	387.8	376.9	371.2	369.4	369.9
20°	438.1	431.8	414.5	392.5	373.4	361.9	356.1	355.0	355.5
22.5°	428.3	420.8	401.2	377.5	356.7	344.5	339.3	339.3	338.8
25°	415.6	407.5	386.1	361.3	338.8	326.6	322.7	323.2	323.2
27.5°	398.8	390.8	369.4	342.8	320.3	308.2	305.3	306.5	307.0
30°	378.1	369.4	346.9	320.9	300.1	288.0	286.3	288.0	288.6
32.5°	352.7	346.4	324.4	297.9	278.2	267.8	267.3	269.0	271.2
35°	326.1	319.2	299.0	274.8	256.3	247.6	247.6	250.5	252.2
37.5°	297.3	290.3	271.8	251.6	236.1	228.0	229.1	232.0	232.6
40°	266.7	261.5	245.9	228.5	215.3	208.9	210.6	213.6	214.1
42.5°	237.8	233.2	220.5	204.8	195.1	190.5	192.8	196.2	197.4
45°	211.9	206.7	196.2	183.0	174.9	172.6	175.5	177.8	178.9
47.5°	188.2	183.5	174.9	162.8	157.0	155.8	158.7	159.9	161.0
50°	167.3	162.8	154.1	143.1	138.6	138.6	140.8	142.0	141.4
52.5°	147.2	143.1	135.1	125.9	122.9	122.9	124.6	125.2	126.4
55°	130.4	126.4	119.5	110.8	108.5	107.4	108.5	108.5	109.7
57.5°	114.9	111.4	105.0	97.0	94.0	92.9	92.3	91.8	92.9
60°	101.1	98.1	91.2	84.3	81.9	79.1	76.8	74.4	75.0
62.5°	88.3	85.4	79.1	72.2	69.8	65.8	62.9	60.0	61.2
65°	76.1	73.3	67.5	61.7	58.3	53.7	49.1	47.4	48.5
67.5°	65.3	62.9	57.1	51.3	48.5	43.3	38.6	38.6	39.2
70°	54.3	51.9	47.4	42.1	38.6	34.1	32.3	32.9	32.9
72.5°	44.4	42.7	38.1	33.4	30.0	27.1	27.1	27.8	28.3
75°	35.2	34.1	29.5	25.4	23.1	21.3	22.5	23.1	23.7
77.5°	27.1	25.4	22.0	19.0	17.3	17.9	19.0	19.6	20.2
80°	19.0	18.5	15.6	13.8	13.3	13.8	15.0	15.6	15.6
82.5°	12.1	11.6	9.9	9.3	9.3	9.9	11.0	11.0	11.0
85°	6.3	5.8	5.2	5.2	5.8	6.3	6.9	6.9	6.9
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)