

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: P581962

Luminaire Tested: **HC620D010-HM60525935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581962
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: HC620D010-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: 1861.7 lumens
Efficiency: N/A
Efficacy: 93.1 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

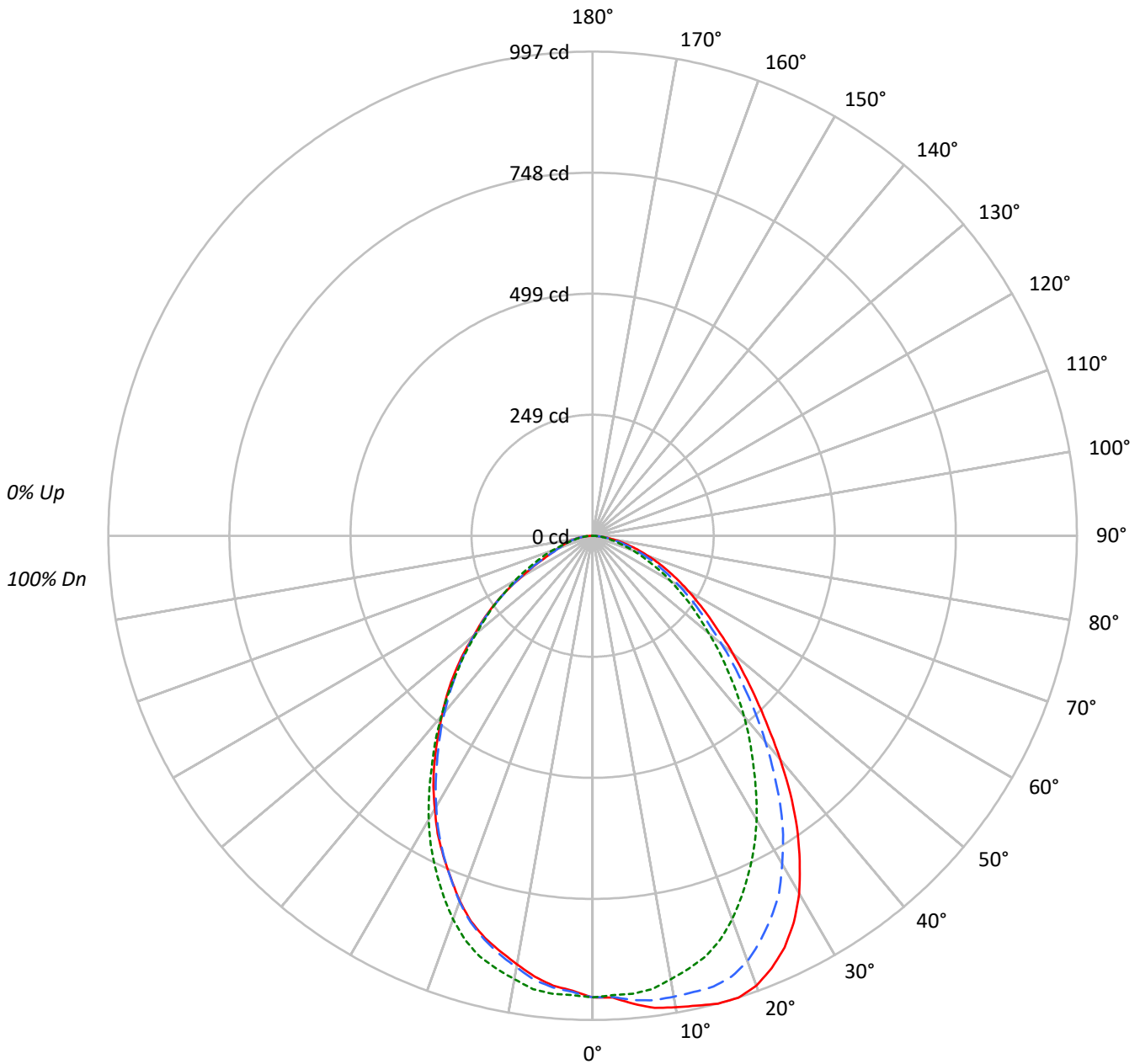
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	52112	52112	52112
5°	53241	52096	51172
10°	54870	51613	49882
15°	56606	50925	48644
20°	57504	49016	46671
25°	56562	46110	43992
30°	53850	42747	41101
35°	49101	38588	37979
40°	42938	34665	34479
45°	36957	30507	31213
50°	32118	26583	27129
55°	28042	23340	23588
60°	24921	20229	18507
65°	22233	17019	14152
70°	19555	13945	11861
75°	16775	10993	11289
80°	13512	9439	11049
85°	8995	8177	9812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	4.8
10°-20°	256.2	13.8
20°-30°	365.8	19.6
30°-40°	383.1	20.6
40°-50°	322.6	17.3
50°-60°	229.6	12.3
60°-70°	134.4	7.2
70°-80°	63.6	3.4
80°-90°	16.4	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°	712.0	38.2
0°-40°	1095.1	58.8
0°-60°	1647.3	88.5
0°-90°	1861.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	951	951	951	951	951	
5°	968	960	947	934	930	93
15°	997	961	897	861	857	282
25°	935	869	762	726	727	428
35°	734	673	577	557	568	456
45°	477	442	394	395	403	370
55°	293	269	244	244	247	265
65°	171	152	131	110	109	171
75°	79	66	52	51	53	85
85°	14	12	13	16	16	19
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°	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6	950.6
2.5°	951.9	951.9	950.6	949.3	946.7	942.9	940.3	937.7	937.7
5°	967.5	964.9	959.8	953.2	946.7	938.9	933.7	929.9	929.9
7.5°	980.5	975.3	964.9	953.2	941.5	931.1	922.0	916.8	915.6
10°	985.7	979.1	963.6	945.4	927.2	913.0	902.5	896.1	896.1
12.5°	990.9	983.1	962.3	936.3	913.0	893.5	883.1	877.8	876.6
15°	997.4	987.0	961.0	928.5	897.3	875.2	861.0	857.1	857.1
17.5°	997.4	984.4	951.9	911.6	872.7	848.1	835.0	831.2	832.4
20°	985.7	971.4	932.5	883.1	840.2	814.3	801.3	798.7	800.0
22.5°	963.6	946.7	902.5	849.3	802.6	775.3	763.6	763.6	762.3
25°	935.1	916.8	868.8	812.9	762.3	735.1	725.9	727.3	727.3
27.5°	897.3	879.2	831.2	771.5	720.7	693.5	686.9	689.5	690.9
30°	850.7	831.2	780.5	722.1	675.3	648.1	644.1	648.1	649.3
32.5°	793.4	779.2	729.9	670.1	626.0	602.5	601.3	605.1	610.3
35°	733.7	718.2	672.7	618.2	576.6	557.1	557.1	563.7	567.5
37.5°	668.8	653.2	611.7	566.3	531.2	513.0	515.5	522.1	523.3
40°	600.0	588.3	553.2	514.3	484.4	470.1	474.0	480.5	481.8
42.5°	535.0	524.7	496.1	461.0	438.9	428.6	433.7	441.5	444.1
45°	476.7	464.9	441.5	411.7	393.5	388.3	394.7	399.9	402.6
47.5°	423.4	413.0	393.5	366.2	353.3	350.7	357.1	359.7	362.3
50°	376.6	366.2	346.7	322.1	311.7	311.7	316.9	319.5	318.1
52.5°	331.2	322.1	303.9	283.1	276.6	276.6	280.5	281.8	284.4
55°	293.4	284.4	268.9	249.4	244.2	241.6	244.2	244.2	246.8
57.5°	258.4	250.6	236.3	218.2	211.6	209.0	207.8	206.4	209.0
60°	227.3	220.8	205.2	189.6	184.5	177.9	172.7	167.6	168.8
62.5°	198.7	192.2	177.9	162.4	157.1	148.1	141.5	135.1	137.7
65°	171.4	165.0	151.9	138.9	131.2	120.8	110.4	106.5	109.1
67.5°	146.7	141.5	128.6	115.6	109.1	97.4	87.0	87.0	88.3
70°	122.0	116.9	106.5	94.8	87.0	76.6	72.7	74.0	74.0
72.5°	100.0	96.1	85.8	75.3	67.5	61.1	61.1	62.3	63.7
75°	79.2	76.6	66.3	57.1	51.9	48.0	50.6	51.9	53.3
77.5°	61.1	57.1	49.4	42.8	39.0	40.2	42.8	44.2	45.4
80°	42.8	41.6	35.0	31.2	29.9	31.2	33.8	35.0	35.0
82.5°	27.3	25.9	22.1	20.7	20.7	22.1	24.7	24.7	24.7
85°	14.3	13.0	11.7	11.7	13.0	14.3	15.6	15.6	15.6
87.5°	5.2	3.9	5.2	5.2	6.5	6.5	6.5	6.5	6.5
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)