

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: P581927

Luminaire Tested: **HC620D010-HM60525927-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581927
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-HM60525927-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1619.9 lumens
Efficiency: N/A
Efficacy: 81.0 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

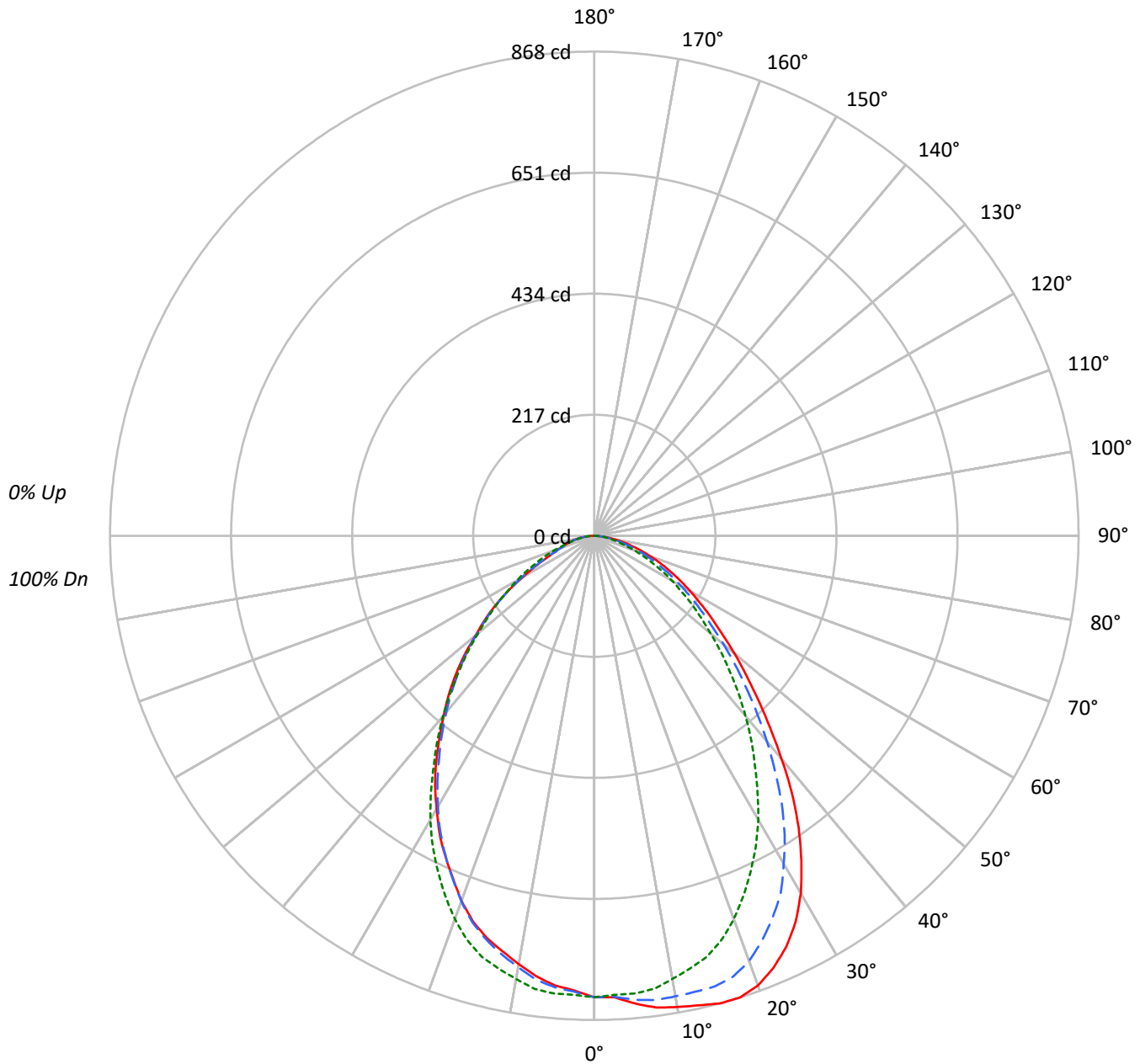
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	45347	45347	45347
5°	46324	45333	44524
10°	47745	44911	43403
15°	49257	44319	42333
20°	50037	42651	40609
25°	49213	40127	38276
30°	46855	37196	35765
35°	42724	33575	33047
40°	37363	30164	29999
45°	32151	26545	27158
50°	27948	23129	23615
55°	24410	20300	20520
60°	21676	17586	16117
65°	19354	14801	12310
70°	17038	12133	10322
75°	14594	9574	9807
80°	11775	8177	9629
85°	7862	7108	8554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	4.8
10°-20°	223.0	13.8
20°-30°	318.3	19.6
30°-40°	333.4	20.6
40°-50°	280.7	17.3
50°-60°	199.8	12.3
60°-70°	116.9	7.2
70°-80°	55.3	3.4
80°-90°	14.2	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°	619.5	38.2
0°-40°	952.9	58.8
0°-60°	1433.4	88.5
0°-90°	1619.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	827	827	827	827	827	
5°	842	835	824	812	809	81
15°	868	836	781	749	746	245
25°	814	756	663	632	633	372
35°	638	585	502	485	494	397
45°	415	384	342	344	350	322
55°	255	234	212	212	215	230
65°	149	132	114	96	95	149
75°	69	58	45	44	46	74
85°	12	10	11	14	14	16
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°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2	827.2
2.5°	828.3	828.3	827.2	826.1	823.8	820.4	818.1	815.9	815.9
5°	841.8	839.6	835.1	829.5	823.8	817.0	812.5	809.1	809.1
7.5°	853.1	848.6	839.6	829.5	819.3	810.2	802.3	797.7	796.6
10°	857.7	852.0	838.4	822.7	806.8	794.3	785.4	779.7	779.7
12.5°	862.2	855.4	837.3	814.7	794.3	777.5	768.4	763.9	762.7
15°	867.9	858.8	836.3	807.9	780.9	761.6	749.3	745.9	745.9
17.5°	867.9	856.5	828.3	793.3	759.3	737.9	726.6	723.2	724.3
20°	857.7	845.2	811.3	768.4	731.1	708.5	697.2	695.0	696.1
22.5°	838.4	823.8	785.4	739.1	698.4	674.6	664.5	664.5	663.4
25°	813.6	797.7	755.9	707.4	663.4	639.6	631.6	632.8	632.8
27.5°	780.9	765.0	723.2	671.2	627.1	603.4	597.8	600.0	601.2
30°	740.2	723.2	679.1	628.2	587.6	563.9	560.5	563.9	565.0
32.5°	690.5	678.0	635.0	583.0	544.6	524.4	523.2	526.6	531.2
35°	638.4	624.8	585.3	537.8	501.7	484.8	484.8	490.5	493.8
37.5°	581.9	568.4	532.3	492.7	462.2	446.4	448.7	454.2	455.4
40°	522.1	511.9	481.4	447.5	421.5	409.0	412.4	418.1	419.2
42.5°	465.5	456.5	431.7	401.2	381.9	372.9	377.4	384.2	386.5
45°	414.7	404.6	384.2	358.3	342.4	337.9	343.5	348.1	350.3
47.5°	368.3	359.4	342.4	318.7	307.4	305.1	310.8	313.0	315.3
50°	327.7	318.7	301.7	280.2	271.2	271.2	275.8	278.0	276.9
52.5°	288.1	280.2	264.4	246.3	240.6	240.6	244.0	245.2	247.4
55°	255.4	247.4	234.0	217.0	212.4	210.2	212.4	212.4	214.7
57.5°	224.9	218.1	205.6	189.9	184.2	182.0	180.8	179.7	182.0
60°	197.7	192.2	178.6	165.0	160.4	154.8	150.2	145.8	147.0
62.5°	172.9	167.2	154.8	141.3	136.8	128.8	123.2	117.5	119.8
65°	149.2	143.6	132.2	120.9	114.1	105.1	96.1	92.7	94.9
67.5°	127.7	123.2	111.8	100.6	94.9	84.7	75.7	75.7	76.8
70°	106.3	101.7	92.7	82.5	75.7	66.6	63.3	64.4	64.4
72.5°	87.0	83.6	74.6	65.5	58.8	53.1	53.1	54.3	55.4
75°	68.9	66.6	57.7	49.7	45.2	41.8	44.1	45.2	46.3
77.5°	53.1	49.7	42.9	37.3	33.9	35.0	37.3	38.4	39.5
80°	37.3	36.1	30.5	27.1	25.9	27.1	29.3	30.5	30.5
82.5°	23.7	22.5	19.3	18.1	18.1	19.3	21.4	21.4	21.4
85°	12.5	11.3	10.2	10.2	11.3	12.5	13.6	13.6	13.6
87.5°	4.5	3.4	4.5	4.5	5.7	5.7	5.7	5.7	5.7
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)