

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: H20130

Luminaire Tested: **L530070ESCPLWW**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20130
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L530070ESCPLWW
Description: HALO 70 WATT ADJUSTABLE BEAM FIXTURE
WITH MATTE WALL WASH REFLECTOR IN FLOOD SOCKET POSITION
AND LINEAR LENS
Light Source: CMH70/TC/U/830 70 WATTS 6600 LUMENS
BI PIN T4.5 METAL HALIDE LAMP
Ballast/Driver: -

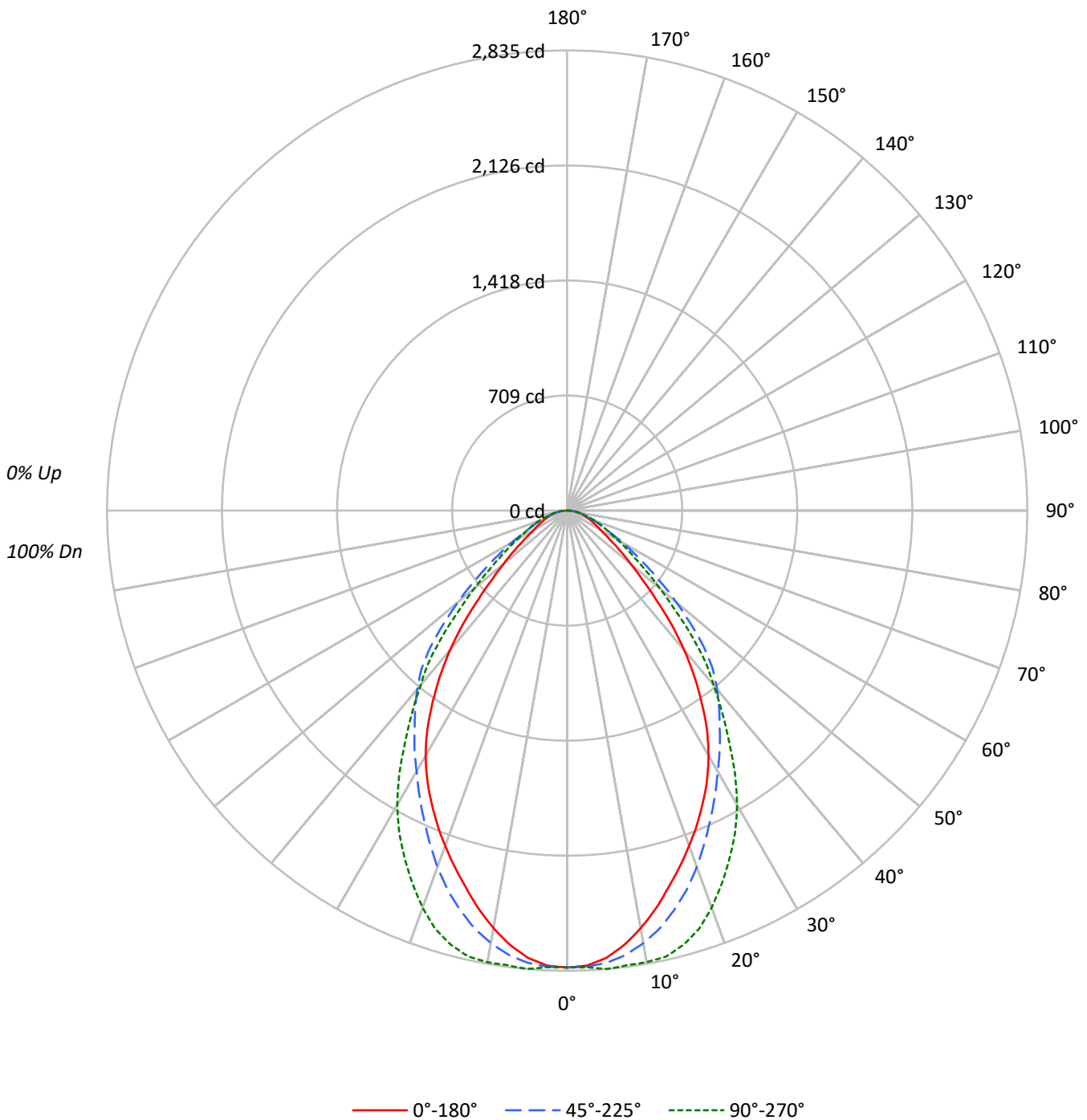
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 4655.7 lumens
Efficiency: 70.5%
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.13 / 1.14
Luminous Opening: (L: 0' x W: -0.38' x H: 0'
CIE Type: Direct

Input Watts (W): 80
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																				
0	84	84	84	84	82	82	82	82	78	78	78		75	75	75		72	72	72	71
1	78	76	73	71	77	74	72	70	71	69	68		69	67	66		66	65	64	62
2	73	68	64	61	71	67	63	60	64	61	59		62	60	58		60	58	56	55
3	68	61	57	53	66	60	56	52	58	55	52		57	53	51		55	52	50	49
4	63	56	51	47	61	55	50	46	53	49	46		52	48	45		50	47	45	43
5	58	51	45	41	57	50	45	41	49	44	41		47	43	40		46	43	40	39
6	55	46	41	37	53	46	41	37	45	40	37		44	39	36		42	39	36	35
7	51	43	37	34	50	42	37	33	41	37	33		40	36	33		39	36	33	32
8	48	39	34	30	47	39	34	30	38	34	30		37	33	30		37	33	30	29
9	45	37	31	28	44	36	31	28	35	31	28		35	31	28		34	30	27	26
10	42	34	29	26	42	34	29	26	33	29	26		32	28	25		32	28	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	264.2	5.7	4.0
10°-20°	720.7	15.5	10.9
20°-30°	977.1	21.0	14.8
30°-40°	1005.4	21.6	15.2
40°-50°	823.1	17.7	12.5
50°-60°	470.2	10.1	7.1
60°-70°	235.7	5.1	3.6
70°-80°	117.8	2.5	1.8
80°-90°	40.5	0.9	0.6
90°-100°	0.8	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1962.0	42.1	29.7
0°-40°	2967.4	63.7	45.0
0°-60°	4260.8	91.5	64.6
0°-90°	4654.9	100.0	70.5
90°-120°	0.8	0.0	0.0
90°-150°	0.8	0.0	0.0
90°-180°	1.0	0.0	0.0
0°-180°	4655.7	100.0	70.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2815	2815	2815	2815	2815	
5°	2766	2771	2796	2826	2835	259
15°	2406	2448	2548	2701	2769	676
25°	1981	1971	2091	2276	2367	909
35°	1446	1472	1638	1724	1740	899
45°	774	1072	1195	1126	1075	606
55°	341	500	600	527	510	315
65°	179	212	248	244	253	180
75°	104	103	110	112	114	110
85°	36	36	36	36	36	37
90°	6	6	6	6	6	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2815	2815	2815	2815	2815
2.5°	2806	2806	2812	2814	2816
5°	2766	2771	2796	2826	2835
7.5°	2699	2713	2761	2809	2825
10°	2612	2636	2706	2786	2825
12.5°	2515	2548	2636	2756	2814
15°	2406	2448	2548	2701	2769
17.5°	2302	2343	2449	2614	2702
20°	2198	2232	2337	2510	2603
22.5°	2092	2109	2213	2394	2489
25°	1981	1971	2091	2276	2367
27.5°	1868	1830	1974	2154	2239
30°	1743	1692	1855	2013	2094
32.5°	1605	1569	1750	1871	1924
35°	1446	1472	1638	1724	1740
37.5°	1287	1383	1537	1580	1570
40°	1123	1300	1438	1435	1405
42.5°	950	1201	1329	1286	1258
45°	774	1072	1195	1126	1075
47.5°	624	913	1031	952	894
50°	512	758	878	792	745
52.5°	420	619	730	646	618
55°	341	500	600	527	510
57.5°	281	401	489	432	425
60°	237	317	393	356	354
62.5°	206	256	311	293	298
65°	179	212	248	244	253
67.5°	157	175	208	211	217
70°	136	146	168	174	182
72.5°	119	123	137	142	147
75°	104	103	110	112	114
77.5°	89	86	89	88	91
80°	72	70	70	71	73
82.5°	54	54	54	55	55
85°	36	36	36	36	36
87.5°	21	20	20	20	20
90°	6	6	6	6	6
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)