

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: H20134

Luminaire Tested: **L530070ESCPLWW**

Issue Date: 3/3/2020



Test Information

Test Method: LM-46-04
Report Number: H20134
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 NARROW 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: -

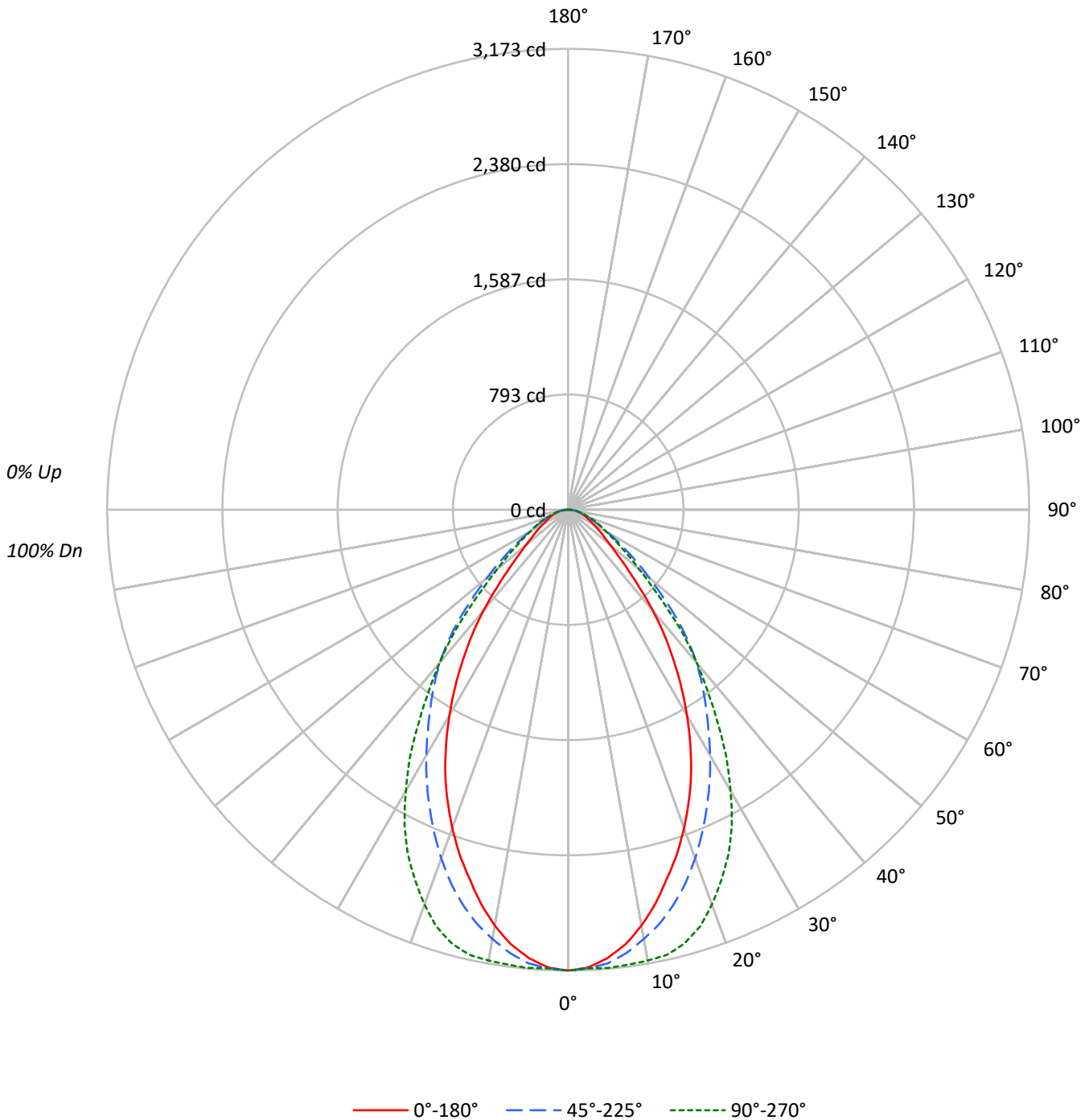
Summary

Lumens per Lamp: 6600 (1 lamp)
Luminaire Lumens: 4549.9 lumens
Efficiency: 68.9%
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1.09 / 1.06
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	82	82	82	82	80	80	80	80	77	77	77		73	73	73		70	70	70	69
1	77	74	72	70	75	73	71	69	70	68	67		67	66	65		65	64	63	62
2	72	67	64	61	70	66	63	60	64	61	59		62	59	57		60	58	56	55
3	67	61	57	53	65	60	56	53	58	55	52		56	53	51		55	52	50	49
4	62	56	51	47	61	55	50	47	53	49	46		52	48	46		50	47	45	44
5	58	51	46	42	57	50	45	42	49	45	42		48	44	41		46	43	41	39
6	55	47	42	38	53	46	41	38	45	41	38		44	40	37		43	40	37	36
7	51	43	38	35	50	43	38	34	42	37	34		41	37	34		40	37	34	33
8	48	40	35	32	47	40	35	32	39	35	31		38	34	31		37	34	31	30
9	45	37	32	29	44	37	32	29	36	32	29		36	32	29		35	31	29	28
10	43	35	30	27	42	35	30	27	34	30	27		33	29	27		33	29	27	26

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°	295.3	6.5	4.5
10°-20°	793.9	17.4	12.0
20°-30°	1041.2	22.9	15.8
30°-40°	992.5	21.8	15.0
40°-50°	711.6	15.6	10.8
50°-60°	378.2	8.3	5.7
60°-70°	199.3	4.4	3.0
70°-80°	102.3	2.2	1.5
80°-90°	35.1	0.8	0.5
90°-100°	0.5	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°	2130.4	46.8	32.3
0°-40°	3122.9	68.6	47.3
0°-60°	4212.7	92.6	63.8
0°-90°	4549.4	100.0	68.9
90°-120°	0.5	0.0	0.0
90°-150°	0.5	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	4549.9	100.0	68.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3173	3173	3173	3173	3173	
5°	3099	3104	3136	3161	3167	290
15°	2628	2675	2812	2998	3092	737
25°	2003	2046	2259	2490	2612	914
35°	1264	1398	1652	1775	1797	787
45°	575	847	1050	1013	967	460
55°	273	365	488	440	436	248
65°	153	173	212	214	223	154
75°	92	90	96	97	99	97
85°	30	30	31	31	31	32
90°	3	3	3	4	5	3
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°	3173	3173	3173	3173	3173
2.5°	3155	3155	3160	3163	3161
5°	3099	3104	3136	3161	3167
7.5°	3019	3029	3078	3140	3160
10°	2908	2926	3001	3105	3152
12.5°	2777	2805	2917	3065	3139
15°	2628	2675	2812	2998	3092
17.5°	2487	2536	2691	2899	3012
20°	2332	2393	2554	2776	2892
22.5°	2170	2228	2409	2636	2757
25°	2003	2046	2259	2490	2612
27.5°	1820	1865	2108	2327	2440
30°	1635	1684	1953	2149	2235
32.5°	1449	1528	1796	1963	2028
35°	1264	1398	1652	1775	1797
37.5°	1087	1280	1513	1587	1578
40°	905	1155	1373	1394	1377
42.5°	725	1011	1218	1207	1184
45°	575	847	1050	1013	967
47.5°	460	688	877	828	780
50°	380	556	728	669	637
52.5°	315	449	598	540	528
55°	273	365	488	440	436
57.5°	234	299	392	362	362
60°	200	255	314	297	301
62.5°	174	210	260	257	262
65°	153	173	212	214	223
67.5°	136	146	173	179	188
70°	119	125	142	149	156
72.5°	105	106	117	122	126
75°	92	90	96	97	99
77.5°	79	76	78	78	79
80°	64	62	62	62	63
82.5°	48	48	48	48	49
85°	30	30	31	31	31
87.5°	17	17	17	18	17
90°	3	3	3	4	5
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)