

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: H20135

Luminaire Tested: **L530070ESCPLWW**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-46-04  
Report Number: H20135  
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 SPOT SOCKET POSITION  
AND LINEAR LENS  
Light Source: CMH70/TC/U/830 70 WATTS 6600 LUMENS  
BI PIN T4.5 METAL HALIDE LAMP  
Ballast/Driver: -

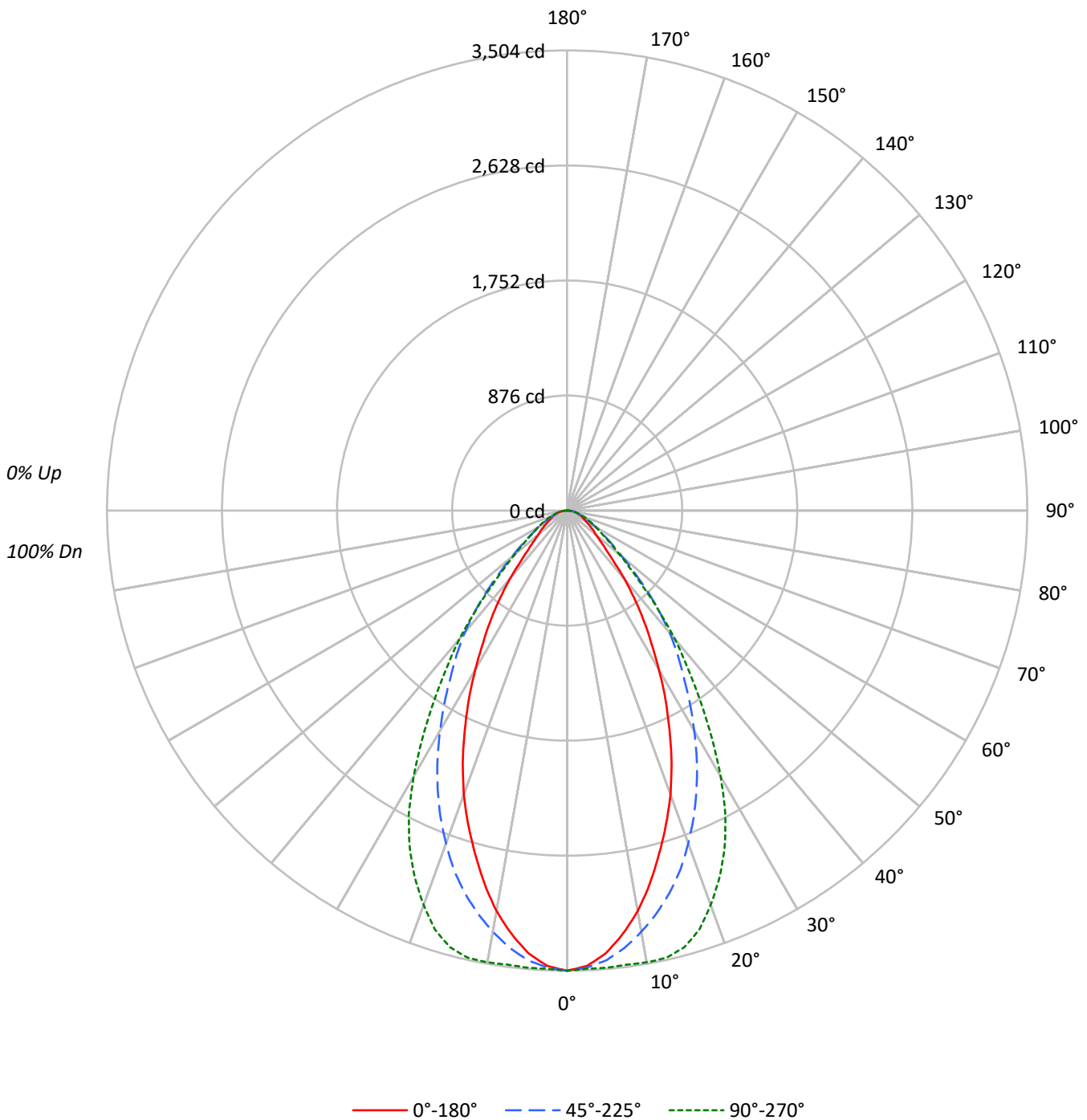
**Summary**

Lumens per Lamp: 6600 (1 lamp)  
Luminaire Lumens: 4321.2 lumens  
Efficiency: 65.5%  
Efficacy: 54.0 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 1.07 / 0.98  
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<sub>in</sub>): 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: H20135  
CATALOG NUMBER: L530070ESCPLWW

### 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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	65
1	73	71	69	67	72	69	68	66	67	65	64		64	63	62		62	61	60	59
2	68	64	61	58	67	63	60	58	61	59	56		59	57	55		57	55	54	53
3	64	59	55	52	63	58	54	51	56	53	50		54	52	49		53	51	49	47
4	60	54	49	46	59	53	49	46	52	48	45		50	47	45		49	46	44	43
5	56	50	45	42	55	49	45	41	48	44	41		47	43	41		45	43	40	39
6	53	46	41	38	52	45	41	38	44	40	37		43	40	37		42	39	37	36
7	50	43	38	35	49	42	38	34	41	37	34		40	37	34		39	36	34	33
8	47	40	35	32	46	39	35	32	38	34	32		38	34	31		37	34	31	30
9	44	37	32	29	44	37	32	29	36	32	29		35	32	29		35	31	29	28
10	42	35	30	27	41	34	30	27	34	30	27		33	30	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°			



TEST NUMBER: H20135

CATALOG NUMBER: L530070ESCPLWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	322.9	7.5	4.9
10°-20°	850.8	19.7	12.9
20°-30°	1063.9	24.6	16.1
30°-40°	919.0	21.3	13.9
40°-50°	578.9	13.4	8.8
50°-60°	296.5	6.9	4.5
60°-70°	165.8	3.8	2.5
70°-80°	90.4	2.1	1.4
80°-90°	32.6	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°	2237.6	51.8	33.9
0°-40°	3156.6	73.0	47.8
0°-60°	4031.9	93.3	61.1
0°-90°	4320.7	100.0	65.5
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°	4321.2	100.0	65.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3504	3504	3504	3504	3504	
5°	3383	3398	3436	3478	3493	314
15°	2706	2799	3014	3301	3443	755
25°	1843	1994	2333	2658	2836	843
35°	1009	1208	1547	1730	1765	630
45°	417	625	856	860	815	337
55°	221	280	366	355	351	200
65°	133	146	170	178	185	133
75°	83	81	85	86	86	87
85°	28	29	29	30	30	30
90°	3	4	4	3	4	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



TEST NUMBER: H20135

CATALOG NUMBER: L530070ESCPLWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3504	3504	3504	3504	3504
2.5°	3470	3475	3482	3493	3492
5°	3383	3398	3436	3478	3493
7.5°	3251	3285	3358	3443	3487
10°	3097	3142	3256	3414	3493
12.5°	2910	2976	3143	3377	3488
15°	2706	2799	3014	3301	3443
17.5°	2505	2617	2868	3179	3346
20°	2300	2423	2696	3027	3196
22.5°	2076	2215	2521	2854	3029
25°	1843	1994	2333	2658	2836
27.5°	1620	1770	2139	2447	2610
30°	1397	1553	1935	2209	2337
32.5°	1190	1363	1738	1966	2048
35°	1009	1208	1547	1730	1765
37.5°	836	1070	1379	1498	1503
40°	673	928	1213	1278	1273
42.5°	522	772	1031	1060	1030
45°	417	625	856	860	815
47.5°	342	498	688	676	647
50°	286	404	551	539	520
52.5°	255	331	450	434	428
55°	221	280	366	355	351
57.5°	192	240	298	293	293
60°	168	202	252	253	256
62.5°	148	171	207	212	220
65°	133	146	170	178	185
67.5°	120	127	143	151	157
70°	106	110	119	127	132
72.5°	94	95	101	105	108
75°	83	81	85	86	86
77.5°	72	69	70	70	70
80°	59	57	57	57	57
82.5°	44	44	45	44	44
85°	28	29	29	30	30
87.5°	15	16	16	16	16
90°	3	4	4	3	4
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



TEST NUMBER: H20135

CATALOG NUMBER: L530070ESCPLWW

**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)