

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: H22074D

Luminaire Tested: **H47T-498**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H22074D
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H47T-498
Description: HALO 6" RECESSED OPEN DOWNLIGHT
SLOPE CEILING UNIT - BAFFLE
HIGH LAMP POSITION
Light Source: 150PAR38FL 150W 1740 LUMENS
PAR 38 FLOOD LAB LAMP NO.180
Ballast/Driver: -

Summary

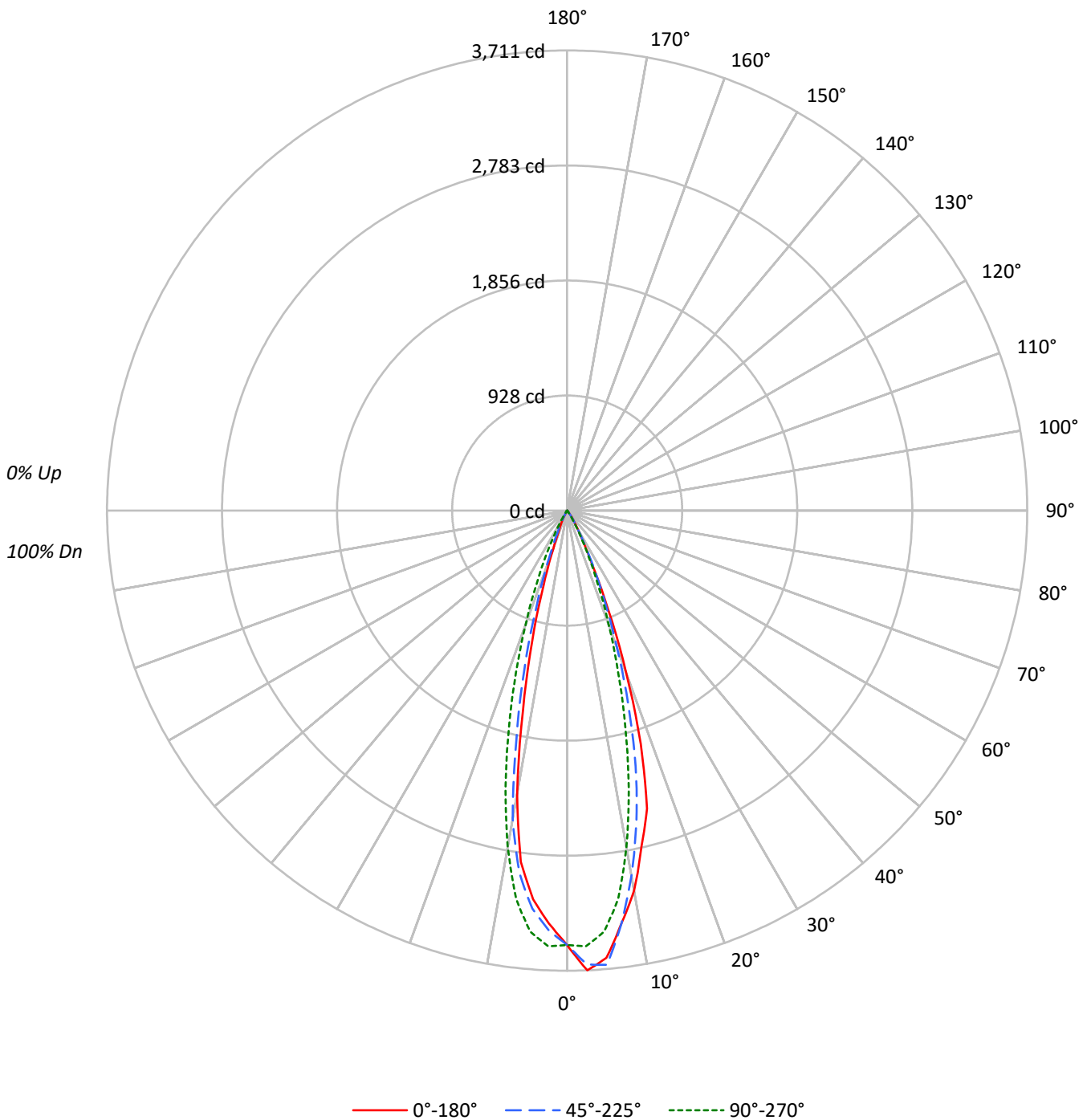
Lumens per Lamp: 1740 (1 lamp)
Luminaire Lumens: 981.1 lumens
Efficiency: 56.4%
Efficacy: 6.5 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.49
Luminous Opening: (L: 0 ' x W: -0.44 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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	67	67	67	67	66	66	66	66	63	63	63	60	60	60	58	58	58	56	56	56	54	54	54
1	65	64	63	62	63	62	61	61	60	59	59	58	58	57	56	56	55	54	54	53	52	52	51
2	63	61	59	57	61	60	58	57	58	57	56	56	55	54	55	54	53	53	52	51	51	51	50
3	61	58	56	54	60	57	55	54	56	54	53	55	53	52	53	52	51	51	50	49	48	48	47
4	59	56	53	52	58	55	53	51	54	52	51	53	51	50	52	51	50	49	48	47	46	46	45
5	57	54	51	49	56	53	51	49	52	50	49	51	50	48	49	48	47	47	46	45	44	44	43
6	55	52	49	48	55	51	49	47	51	49	47	50	48	47	49	48	47	47	46	45	44	44	43
7	54	50	48	46	53	50	47	46	49	47	46	48	47	45	47	46	45	46	45	44	43	43	42
8	52	48	46	44	52	48	46	44	48	46	44	47	45	44	46	45	44	45	44	43	42	42	41
9	51	47	44	43	50	47	44	43	46	44	43	46	44	43	45	44	43	44	43	42	41	41	40
10	49	45	43	42	49	45	43	42	45	43	41	45	43	41	44	42	41	43	42	41	40	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	303.9	31.0	17.5
10°-20°	474.9	48.4	27.3
20°-30°	169.9	17.3	9.8
30°-40°	22.8	2.3	1.3
40°-50°	5.5	0.6	0.3
50°-60°	2.6	0.3	0.2
60°-70°	1.0	0.1	0.1
70°-80°	0.3	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	0.0	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°	948.7	96.7	54.5
0°-40°	971.6	99.0	55.8
0°-60°	979.7	99.9	56.3
0°-90°	981.1	100.0	56.4
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	981.1	100.0	56.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3503	3503	3503	3503	3503	
5°	3622	3677	3410	3222	3146	326
15°	2489	2137	1811	1341	1084	648
25°	463	503	412	129	116	256
35°	70	45	20	12	10	44
45°	9	9	7	5	3	8
55°	4	4	3	2	1	4
65°	2	2	1	0	0	2
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
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°	112.5°	135°	157.5°	180°
0°	3503	3503	3503	3503	3503	3503	3503	3503	3503
2.5°	3711	3691	3664	3598	3516	3456	3388	3350	3334
5°	3622	3636	3677	3608	3410	3300	3222	3168	3146
7.5°	3357	3320	3359	3347	3158	2966	2949	2916	2857
10°	3112	3019	2988	2933	2756	2590	2527	2378	2322
12.5°	2772	2687	2579	2448	2297	2073	1890	1734	1643
15°	2489	2287	2137	1986	1811	1574	1341	1148	1084
17.5°	1972	1775	1636	1512	1371	1125	845	689	631
20°	1392	1264	1170	1105	979	742	499	369	326
22.5°	863	827	786	766	659	445	260	169	159
25°	463	493	503	511	412	223	129	118	116
27.5°	256	273	284	296	239	118	74	46	35
30°	162	162	154	153	122	54	26	19	17
32.5°	103	99	89	72	48	22	16	14	13
35°	70	67	45	28	20	14	12	10	10
37.5°	29	28	22	18	13	11	9	8	7
40°	17	16	15	13	10	9	7	6	6
42.5°	12	12	11	10	8	7	6	5	4
45°	9	10	9	8	7	6	5	4	3
47.5°	7	8	8	7	6	5	4	3	3
50°	6	7	6	5	5	4	3	3	2
52.5°	5	6	5	4	3	3	2	2	1
55°	4	5	4	3	3	2	2	1	1
57.5°	4	4	4	3	2	2	1	1	1
60°	3	3	3	2	2	1	1	0	0
62.5°	3	3	2	2	1	1	0	0	0
65°	2	2	2	1	1	1	0	0	0
67.5°	2	2	1	1	1	0	0	0	0
70°	1	1	1	1	0	0	0	0	0
72.5°	1	1	1	0	0	0	0	0	0
75°	1	1	1	0	0	0	0	0	0
77.5°	1	1	0	0	0	0	0	0	0
80°	1	0	0	0	0	0	0	0	0
82.5°	1	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)