

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: H24054

Luminaire Tested: **H2-ICF-124**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: H24054
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H2-ICF-124
Description: HALO 10" SQ. RECESSED DOWNLIGHT
WHITE REFLECTOR - 4 CELL SPECULAR REFLECTOR
RETEST OF H24053
Light Source: (2) 18WQT/4P 18 WATTS 1250 LUMENS EACH
13mm QUAD TUBE COMPACT FLUORESCENT - 4 PIN BASE
Ballast/Driver: -

Summary

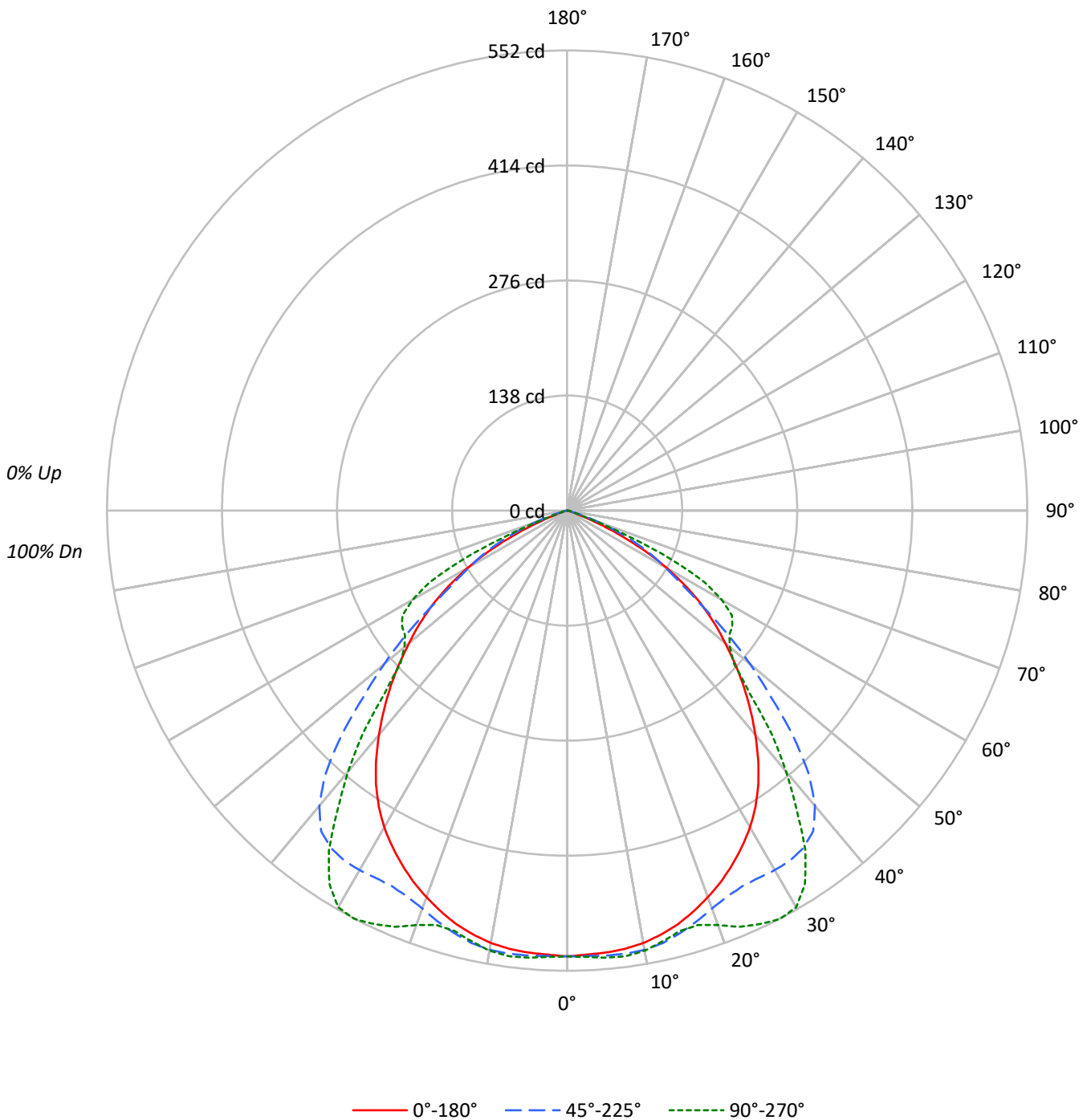
Lumens per Lamp: 1250 (2 lamps)
Luminaire Lumens: 1290.5 lumens
Efficiency: 51.6%
Efficacy: 33.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.42 / 1.41
Luminous Opening: Rectangular (W 0.65' x L: 0.65' x H: 0')
CIE Type: Direct

Input Watts (W): 39
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	61	61	61	61	60	60	60	60	57	57	57	55	55	55	53	53	53	52
1	57	55	54	52	56	54	53	51	52	51	50	50	49	48	48	47	47	46
2	53	49	46	44	52	48	46	43	47	44	42	45	43	42	44	42	41	40
3	49	44	40	38	48	43	40	37	42	39	37	40	38	36	39	37	35	34
4	45	39	35	32	44	39	35	32	38	34	32	36	34	31	35	33	31	30
5	42	36	31	28	41	35	31	28	34	30	28	33	30	28	32	29	27	26
6	38	32	28	25	38	32	28	25	31	27	25	30	27	24	29	26	24	23
7	36	29	25	22	35	29	25	22	28	24	22	27	24	22	27	24	22	21
8	33	27	23	20	33	26	22	20	26	22	20	25	22	20	25	22	19	18
9	31	25	21	18	30	24	20	18	24	20	18	23	20	18	23	20	18	17
10	29	23	19	16	29	22	19	16	22	19	16	21	18	16	21	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13622	13622	13622
5°	13611	13703	13767
10°	13626	13840	13866
15°	13549	13839	13771
20°	13377	13770	14345
25°	13175	13979	15385
30°	12909	14650	16162
35°	12437	15361	15495
40°	11677	15382	13586
45°	10809	13846	11126
50°	9810	11363	10095
55°	8746	8617	10740
60°	7037	6863	10904
65°	4358	5317	8162
70°	1125	2816	1840
75°	453	778	620
80°	381	425	469
85°	351	380	409



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.0	4.0	2.0
10°-20°	147.5	11.4	5.9
20°-30°	233.6	18.1	9.3
30°-40°	289.9	22.5	11.6
40°-50°	262.8	20.4	10.5
50°-60°	196.5	15.2	7.9
60°-70°	97.9	7.6	3.9
70°-80°	9.8	0.8	0.4
80°-90°	1.5	0.1	0.1
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°	432.2	33.5	17.3
0°-40°	722.0	55.9	28.9
0°-60°	1181.3	91.5	47.3
0°-90°	1290.5	100.0	51.6
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°	1290.5	100.0	51.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	532	533	536	537	538	51
15°	514	521	525	523	522	145
25°	469	481	497	536	547	216
35°	400	420	494	511	498	249
45°	300	346	384	332	309	231
55°	197	246	194	217	242	174
65°	72	84	88	127	135	73
75°	5	5	8	6	6	6
85°	1	1	1	1	1	1
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°
0°	534.7	534.7	534.7	534.7	534.7
2.5°	533.1	533.5	534.8	535.5	536.0
5°	532.2	533.3	535.8	537.3	538.3
7.5°	530.2	532.5	536.1	538.0	539.1
10°	526.7	530.3	535.0	535.9	536.0
12.5°	520.8	526.2	531.2	530.7	529.2
15°	513.7	520.7	524.7	522.7	522.1
17.5°	504.2	513.1	516.6	517.8	521.2
20°	493.4	503.6	507.9	520.2	529.1
22.5°	482.0	493.0	501.1	527.6	540.5
25°	468.7	481.1	497.3	536.5	547.3
27.5°	454.3	467.6	496.8	540.7	552.3
30°	438.8	452.9	498.0	543.7	549.4
32.5°	420.5	436.7	497.8	533.0	530.8
35°	399.9	419.5	493.9	511.2	498.2
37.5°	376.4	401.1	484.7	472.8	452.2
40°	351.1	382.4	462.5	425.2	408.5
42.5°	325.7	364.0	429.6	379.7	362.7
45°	300.0	345.8	384.3	331.7	308.8
47.5°	273.9	325.3	332.3	279.9	270.9
50°	247.5	301.9	286.7	245.6	254.7
52.5°	223.2	275.1	241.2	228.8	245.2
55°	196.9	246.2	194.0	217.1	241.8
57.5°	168.3	212.6	160.0	208.8	234.3
60°	138.1	174.2	134.7	192.4	214.0
62.5°	106.7	127.9	112.6	164.0	185.3
65°	72.3	83.6	88.2	126.8	135.4
67.5°	40.2	47.3	61.5	78.3	73.5
70°	15.1	20.0	37.8	35.7	24.7
72.5°	6.8	8.2	19.6	10.9	9.2
75°	4.6	5.1	7.9	6.3	6.3
77.5°	3.5	3.7	4.1	4.3	4.4
80°	2.6	2.8	2.9	3.2	3.2
82.5°	1.8	2.0	2.0	2.2	2.2
85°	1.2	1.3	1.3	1.4	1.4
87.5°	0.6	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)