

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P20174

Luminaire Tested: **ML712840TUNVD010-494SC06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20174
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010-494SC06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR TRIM
REFLECTOR WITH MODULE ML712840TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

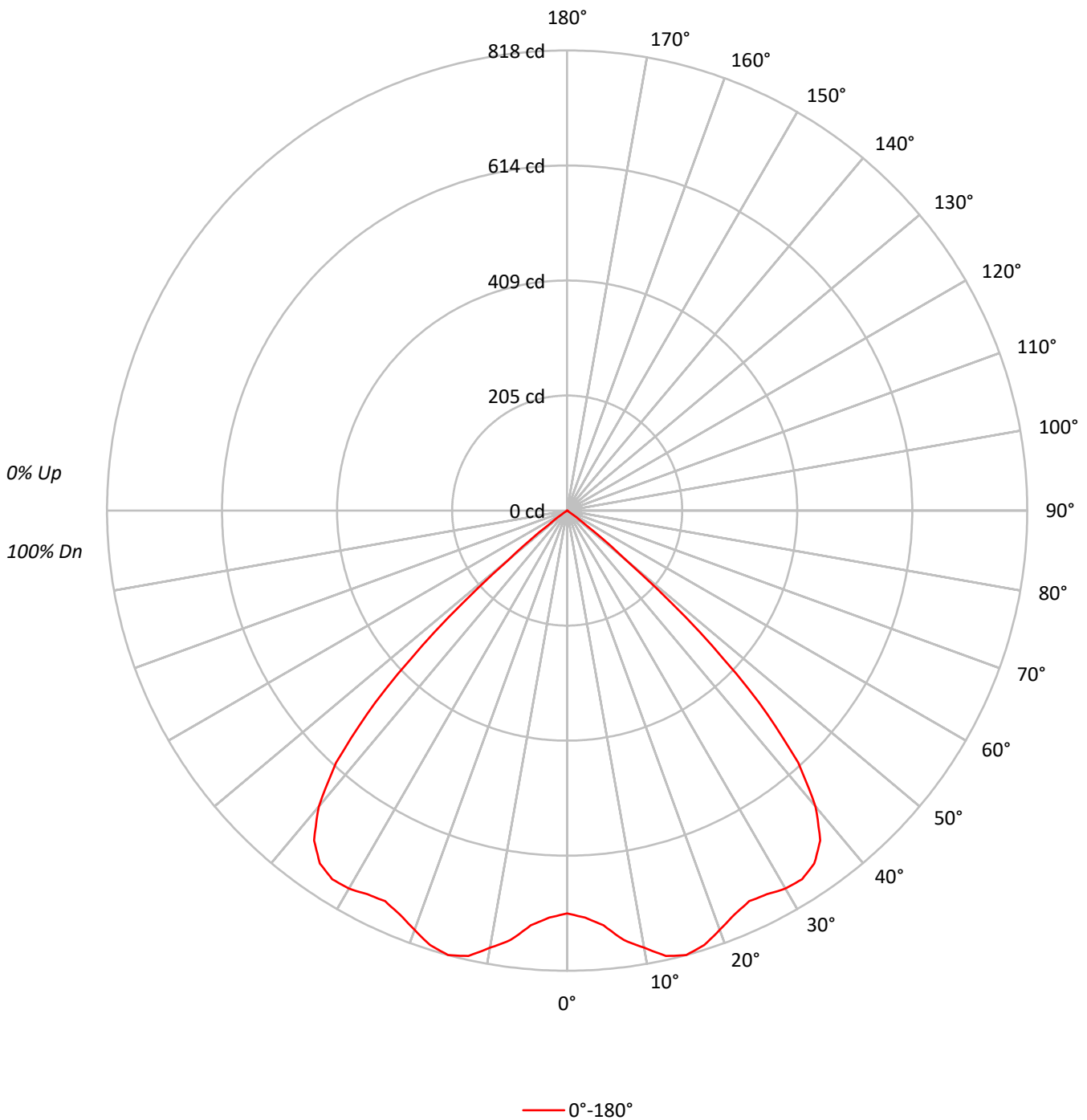
Lumens per Lamp: 1506 (1 lamp)
Luminaire Lumens: 1506.6 lumens
Efficiency: 100.0%
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 1.56 / 1.56 / 1.4
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71		78	73	70		76	72	69	67
5	87	77	70	64	85	76	69	64	74	68	64		72	67	63		70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	76	65	57	52	74	64	57	52	62	56	52		61	56	52		60	55	51	50
8	71	60	52	48	70	59	52	47	58	52	47		57	51	47		56	50	47	45
9	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	41
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	39251
5°	40722
10°	43920
15°	46425
20°	46262
25°	46333
30°	49121
35°	51263
40°	49164
45°	37446
50°	11684
55°	478
60°	219
65°	130
70°	160
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	72.5	4.8	4.8
10°-20°	228.9	15.2	15.2
20°-30°	358.1	23.8	23.8
30°-40°	472.2	31.3	31.4
40°-50°	347.0	23.0	23.0
50°-60°	26.0	1.7	1.7
60°-70°	1.4	0.1	0.1
70°-80°	0.4	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°	659.5	43.8	43.8
0°-40°	1131.7	75.1	75.1
0°-60°	1504.8	99.9	99.9
0°-90°	1506.6	100.0	100.0
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°	1506.6	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	716	
5°	740	72
15°	818	229
25°	766	358
35°	766	472
45°	483	347
55°	5	26
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	716
2.5°	724
5°	740
7.5°	770
10°	789
12.5°	811
15°	818
17.5°	810
20°	793
22.5°	777
25°	766
27.5°	769
30°	776
32.5°	777
35°	766
37.5°	739
40°	687
42.5°	608
45°	483
47.5°	320
50°	137
52.5°	44
55°	5
57.5°	2
60°	2
62.5°	2
65°	1
67.5°	1
70°	1
72.5°	1
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)