

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: P20126

Luminaire Tested: **ML712830TUNVD010-493SCS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20126
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712830TUNVD010-493SCS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR, AND SOLITE GLASS LENS WITH MODULE ML712830TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1320 (1 lamp)
Luminaire Lumens: 1300.1 lumens
Efficiency: 98.5%
Efficacy: 48.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

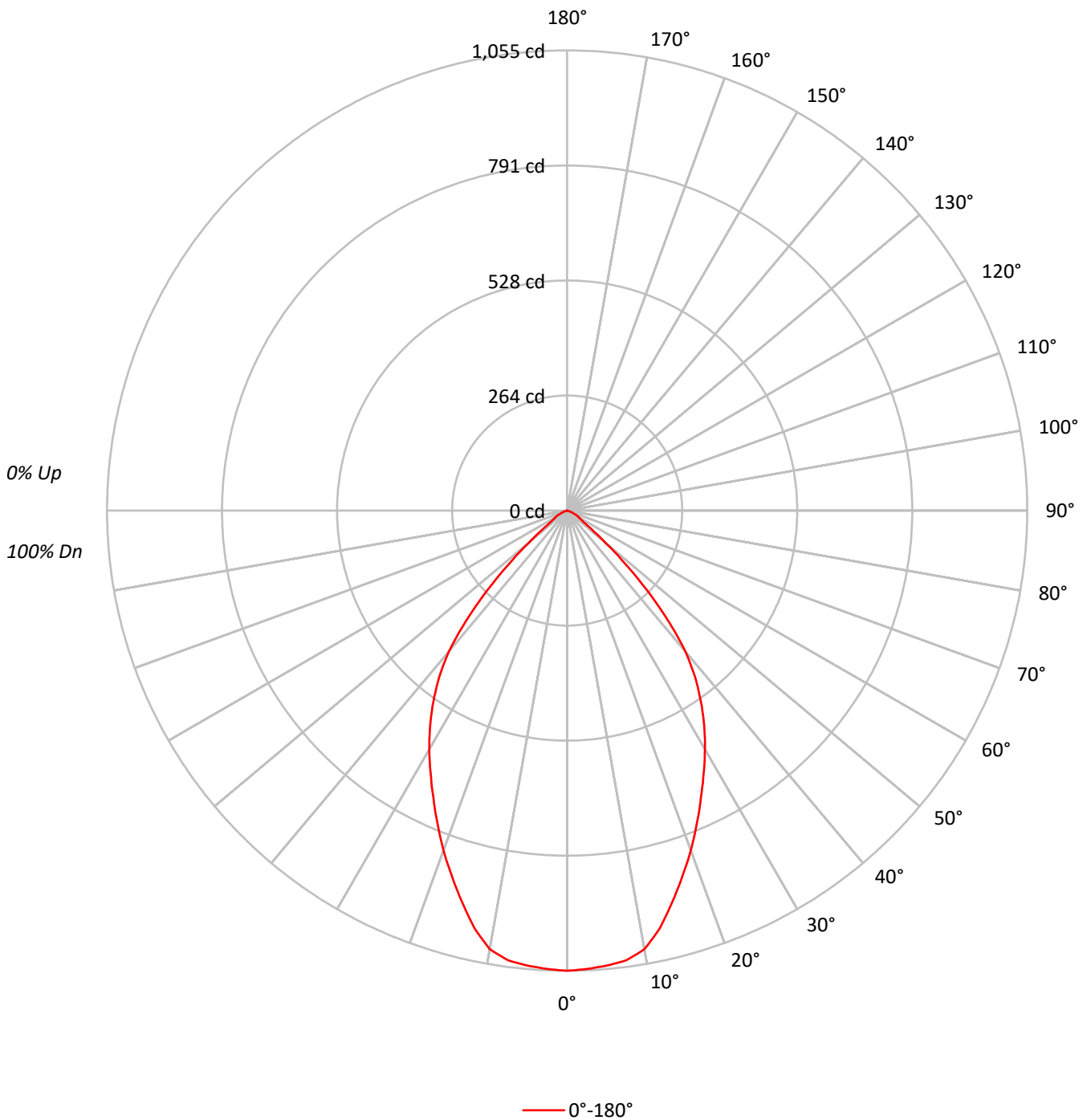
Input Watts (W): 26.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	115	115	115	115	109	109	109		105	105	105		101	101	101	98
1	111	108	105	103	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	104	99	95	91	102	97	93	90	94	91	88		91	88	86		88	86	84	82
3	98	91	85	81	96	90	84	80	87	83	79		84	81	78		82	79	76	75
4	92	84	77	73	90	83	77	72	80	75	71		78	74	71		76	73	70	68
5	87	77	71	66	85	76	70	66	74	69	65		73	68	64		71	67	64	62
6	81	71	65	60	80	71	64	60	69	63	59		68	63	59		66	62	58	57
7	77	66	60	55	75	66	59	55	64	59	54		63	58	54		62	57	54	52
8	72	62	55	51	71	61	55	50	60	54	50		59	54	50		58	53	50	48
9	68	58	51	47	67	57	51	47	56	50	46		55	50	46		54	50	46	45
10	65	54	48	43	64	54	47	43	53	47	43		52	47	43		51	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57835
5°	57616
10°	56835
15°	52781
20°	48363
25°	43914
30°	40006
35°	35804
40°	30199
45°	20157
50°	9893
55°	4396
60°	3399
65°	2465
70°	1603
75°	424
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	99.2	7.6	7.5
10°-20°	260.4	20.0	19.7
20°-30°	334.2	25.7	25.3
30°-40°	331.8	25.5	25.1
40°-50°	200.7	15.4	15.2
50°-60°	50.1	3.9	3.8
60°-70°	19.6	1.5	1.5
70°-80°	3.8	0.3	0.3
80°-90°	0.1	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°	693.9	53.4	52.6
0°-40°	1025.7	78.9	77.7
0°-60°	1276.6	98.2	96.7
0°-90°	1300.1	100.0	98.5
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°	1300.1	100.0	98.5

CANDELA DISTRIBUTION:

	0°	Flux
0°	1055	
5°	1047	99
15°	930	260
25°	726	334
35°	535	332
45°	260	201
55°	46	50
65°	19	20
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1055
2.5°	1052
5°	1047
7.5°	1040
10°	1021
12.5°	981
15°	930
17.5°	879
20°	829
22.5°	777
25°	726
27.5°	678
30°	632
32.5°	585
35°	535
37.5°	482
40°	422
42.5°	344
45°	260
47.5°	181
50°	116
52.5°	71
55°	46
57.5°	36
60°	31
62.5°	26
65°	19
67.5°	14
70°	10
72.5°	6
75°	2
77.5°	1
80°	1
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)