

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: P20168

Luminaire Tested: **ML712840TUNVD010-493TBZS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20168
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712840TUNVD010-493TBZS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH TUSCAN BRONZE TRIM AND SOLITE GLASS LENS WITH MODULE ML712840TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1075 (1 lamp)
Luminaire Lumens: 1075.8 lumens
Efficiency: 100.1%
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

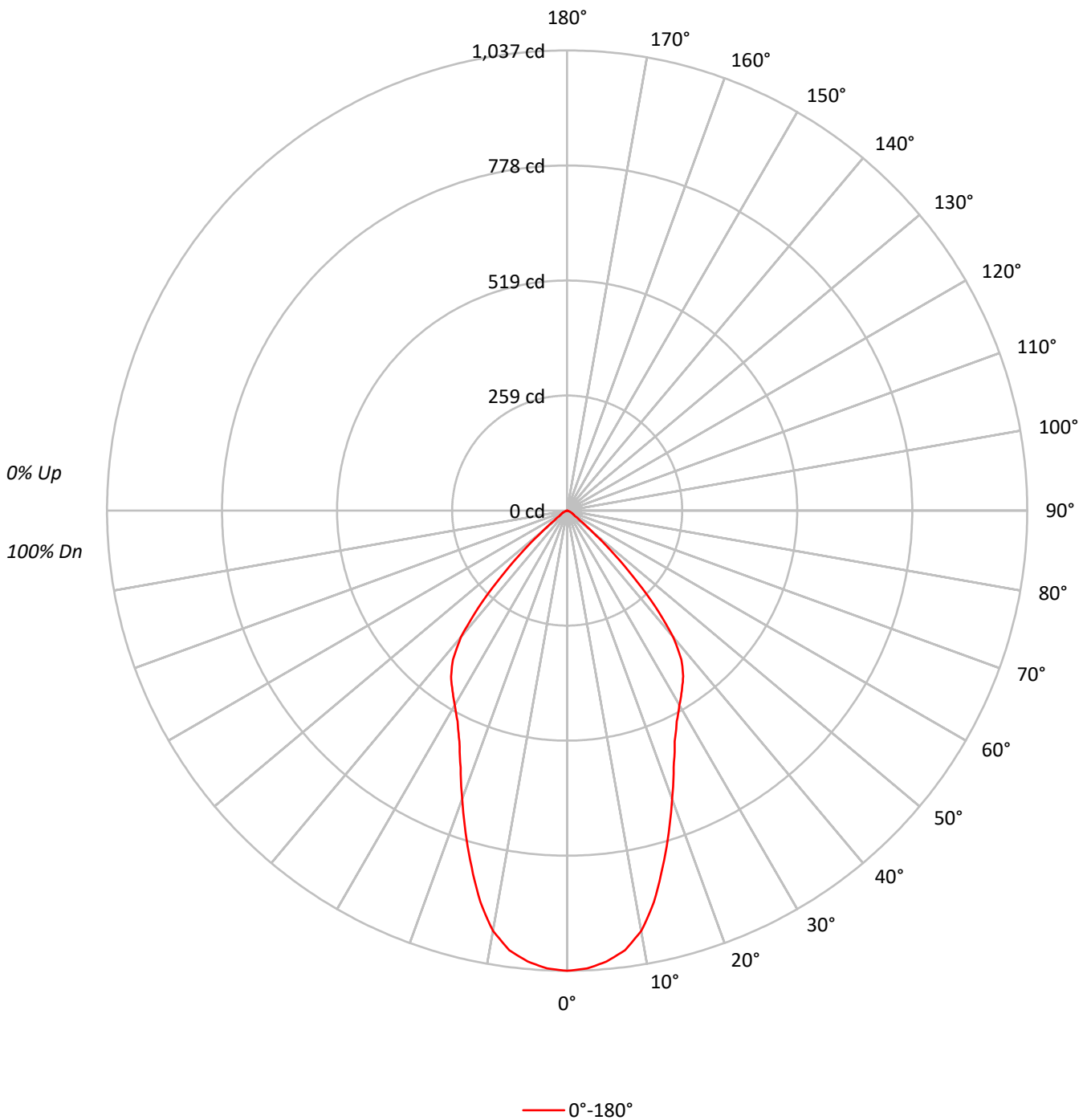
Input Watts (W): 26.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	107	105	111	108	105	103	104	102	100		100	98	97		97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90		93	91	88		90	88	86	85
3	101	93	88	84	98	92	87	83	89	85	81		87	83	80		85	82	79	77
4	95	86	80	75	93	85	79	75	83	78	74		81	77	73		79	75	72	71
5	89	80	73	69	87	79	73	68	77	72	68		75	71	67		74	70	66	65
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	62	58	78	68	62	58	67	61	57		66	61	57		65	60	57	55
8	75	64	58	53	74	64	57	53	63	57	53		62	56	53		61	56	52	51
9	71	60	54	49	70	60	54	49	59	53	49		58	53	49		57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46		54	49	46		54	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56849
5°	56130
10°	53551
15°	47219
20°	40370
25°	34720
30°	32030
35°	30517
40°	26621
45°	16358
50°	6226
55°	2103
60°	1645
65°	1167
70°	481
75°	212
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.6	8.9	8.9
10°-20°	231.6	21.5	21.5
20°-30°	267.7	24.9	24.9
30°-40°	281.0	26.1	26.1
40°-50°	163.7	15.2	15.2
50°-60°	26.5	2.5	2.5
60°-70°	8.9	0.8	0.8
70°-80°	0.9	0.1	0.1
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°	594.9	55.3	55.3
0°-40°	875.9	81.4	81.5
0°-60°	1066.1	99.1	99.2
0°-90°	1075.8	100.0	100.1
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°	1075.8	100.0	100.1

CANDELA DISTRIBUTION:

	0°	Flux
0°	1037	
5°	1020	96
15°	832	232
25°	574	268
35°	456	281
45°	211	164
55°	22	26
65°	9	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1037
2.5°	1033
5°	1020
7.5°	999
10°	962
12.5°	904
15°	832
17.5°	761
20°	692
22.5°	627
25°	574
27.5°	535
30°	506
32.5°	481
35°	456
37.5°	423
40°	372
42.5°	295
45°	211
47.5°	134
50°	73
52.5°	37
55°	22
57.5°	17
60°	15
62.5°	12
65°	9
67.5°	6
70°	3
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)