

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: P20148

Luminaire Tested: **ML712835TUNVD010-493SCS06**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P20148
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: ML712835TUNVD010-493SCS06
Description: HALO 6" RECESSED LED DOWNLIGHT WITH SPECULAR CLEAR LOWER TRIM REFLECTOR, SPECULAR UPPER TRIM REFLECTOR AND SOLITE GLASS LENS WITH MODULE ML712835TUNVD010
Light Source: (1)SURFACE MOUNT LED ON HEAT SINK MODULE
(1)24 WATTS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: 1356 (1 lamp)
Luminaire Lumens: 1355.9 lumens
Efficiency: 100.0%
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

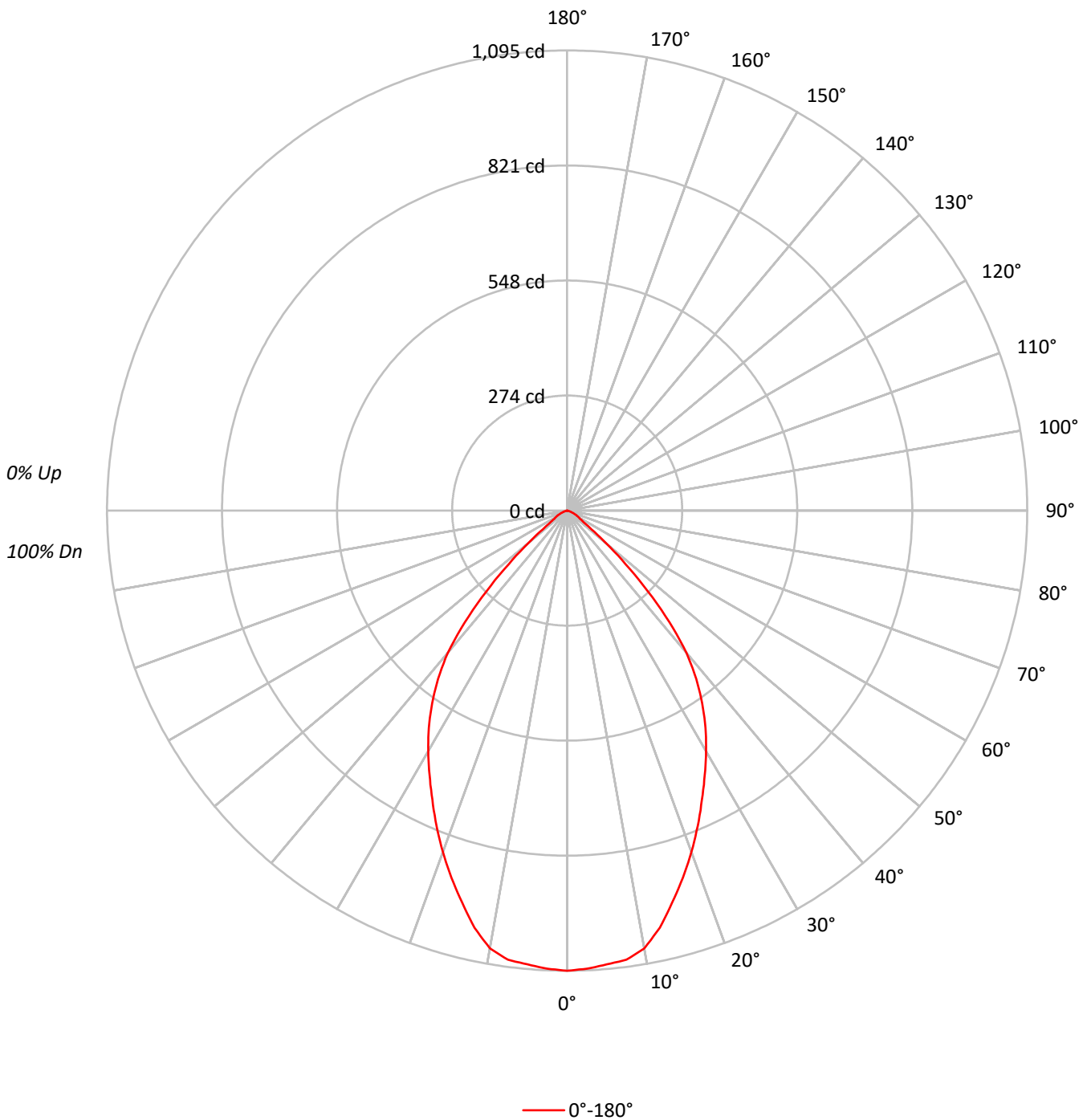
Input Watts (W): 26.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	99		100	98	96		96	95	94	92
2	106	101	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	84
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83	80	78	76
4	94	85	79	74	92	84	78	73	82	76	72		79	75	72		78	74	71	69
5	88	78	72	67	86	77	71	67	76	70	66		74	69	65		72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60		69	64	60		67	63	59	58
7	78	67	61	56	76	67	60	56	65	59	55		64	59	55		63	58	55	53
8	73	63	56	51	72	62	56	51	61	55	51		60	55	51		59	54	50	49
9	69	59	52	47	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60028
5°	59652
10°	58894
15°	54824
20°	50463
25°	45910
30°	41842
35°	37477
40°	31631
45°	21087
50°	10319
55°	4492
60°	3399
65°	2594
70°	1603
75°	424
80°	316
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	102.8	7.6	7.6
10°-20°	270.7	20.0	20.0
20°-30°	349.4	25.8	25.8
30°-40°	347.5	25.6	25.6
40°-50°	210.2	15.5	15.5
50°-60°	51.3	3.8	3.8
60°-70°	20.1	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°	722.9	53.3	53.3
0°-40°	1070.4	78.9	78.9
0°-60°	1331.9	98.2	98.2
0°-90°	1355.9	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°	1355.9	100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1095	
5°	1084	103
15°	966	271
25°	759	349
35°	560	347
45°	272	210
55°	47	51
65°	20	20
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1095
2.5°	1091
5°	1084
7.5°	1078
10°	1058
12.5°	1017
15°	966
17.5°	916
20°	865
22.5°	812
25°	759
27.5°	709
30°	661
32.5°	613
35°	560
37.5°	505
40°	442
42.5°	361
45°	272
47.5°	189
50°	121
52.5°	73
55°	47
57.5°	36
60°	31
62.5°	26
65°	20
67.5°	15
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)