

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P184073

Luminaire Tested: **L80815NF9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27058)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L80815NF9040MB
Description: HALO TRACK LL LED 08, 1500 LM, NARROW FLOOD, MATTE BLACK

Light Source: EATON LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1605.2 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.38
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

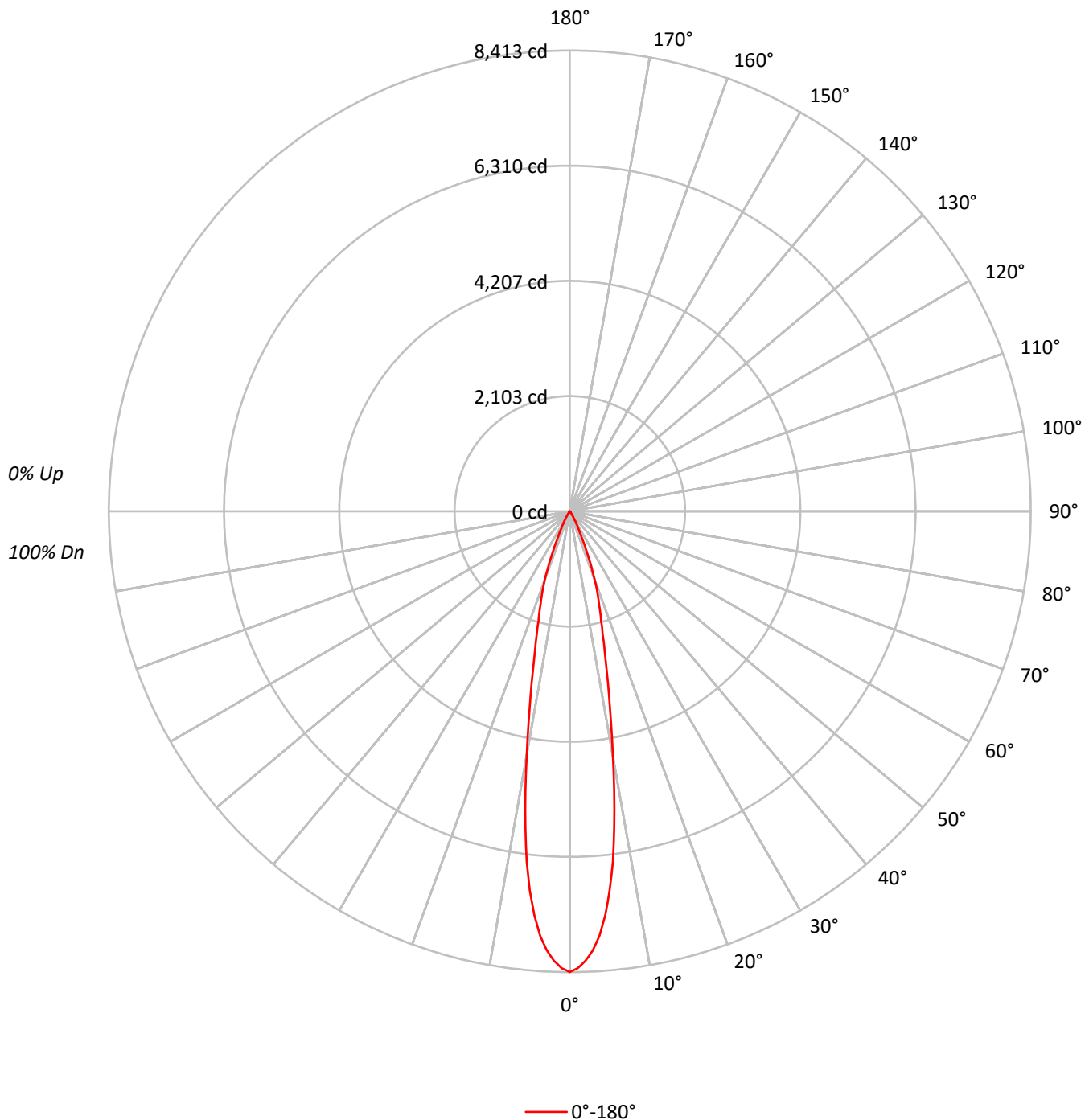
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	115	113	111	109	113	111	109	108	107	105	104	103	102	101	100	99	98	97					97			
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93					93			
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90					90			
4	105	99	95	92	103	98	95	92	96	93	91	94	92	90	93	91	89	88					88			
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	90	88	86	85					85			
6	99	93	88	86	97	92	88	85	91	87	85	89	86	84	88	86	84	83					83			
7	96	90	86	83	95	89	85	83	88	85	82	87	84	82	86	83	81	80					80			
8	94	87	83	80	93	87	83	80	86	82	80	85	82	80	84	81	79	78					78			
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76					76			
10	89	82	79	76	88	82	78	76	81	78	76	81	78	76	80	77	75	74					74			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1844743
5°	1630702
10°	1010959
15°	527222
20°	310850
25°	114442
30°	39930
35°	9958
40°	5582
45°	3845
50°	3616
55°	3403
60°	3114
65°	3684
70°	3398
75°	2965
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.5	38.2
10°-20°	674.8	42.0
20°-30°	253.3	15.8
30°-40°	34.3	2.1
40°-50°	10.7	0.7
50°-60°	8.0	0.5
60°-70°	6.8	0.4
70°-80°	4.2	0.3
80°-90°	0.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1540.5	96.0
0°-40°	1574.8	98.1
0°-60°	1593.5	99.3
0°-90°	1605.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8413	
5°	7408	612
15°	2322	675
25°	473	253
35°	37	34
45°	12	11
55°	9	8
65°	7	7
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8412.7
1°	8341.9
2°	8210.8
3°	8024.8
4°	7766.1
5°	7408.3
6°	6963.7
7°	6442.8
8°	5826.4
9°	5179.8
10°	4540.3
11°	3952.2
12°	3442.0
13°	2995.6
14°	2632.4
15°	2322.4
16°	2076.2
17°	1867.1
18°	1691.8
19°	1519.9
20°	1332.1
21°	1135.5
22°	946.0
23°	767.0
24°	609.4
25°	473.0
26°	377.3
27°	313.6
28°	258.6
29°	205.5
30°	157.7
32.5°	77.9
35°	37.2
37.5°	24.8
40°	19.5
42.5°	15.9
45°	12.4
47.5°	12.4
50°	10.6
52.5°	8.9
55°	8.9
57.5°	8.9
60°	7.1
62.5°	7.1
65°	7.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.1
70°	5.3
72.5°	5.3
75°	3.5
77.5°	3.5
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)