

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 COMMERCIAL

Report Number: P210635

Luminaire Tested: **PR8S40D010 - PR8M34MDMMS - 3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29049)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR8S40D010 - PR8M34MDMMS - 3500K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4030.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

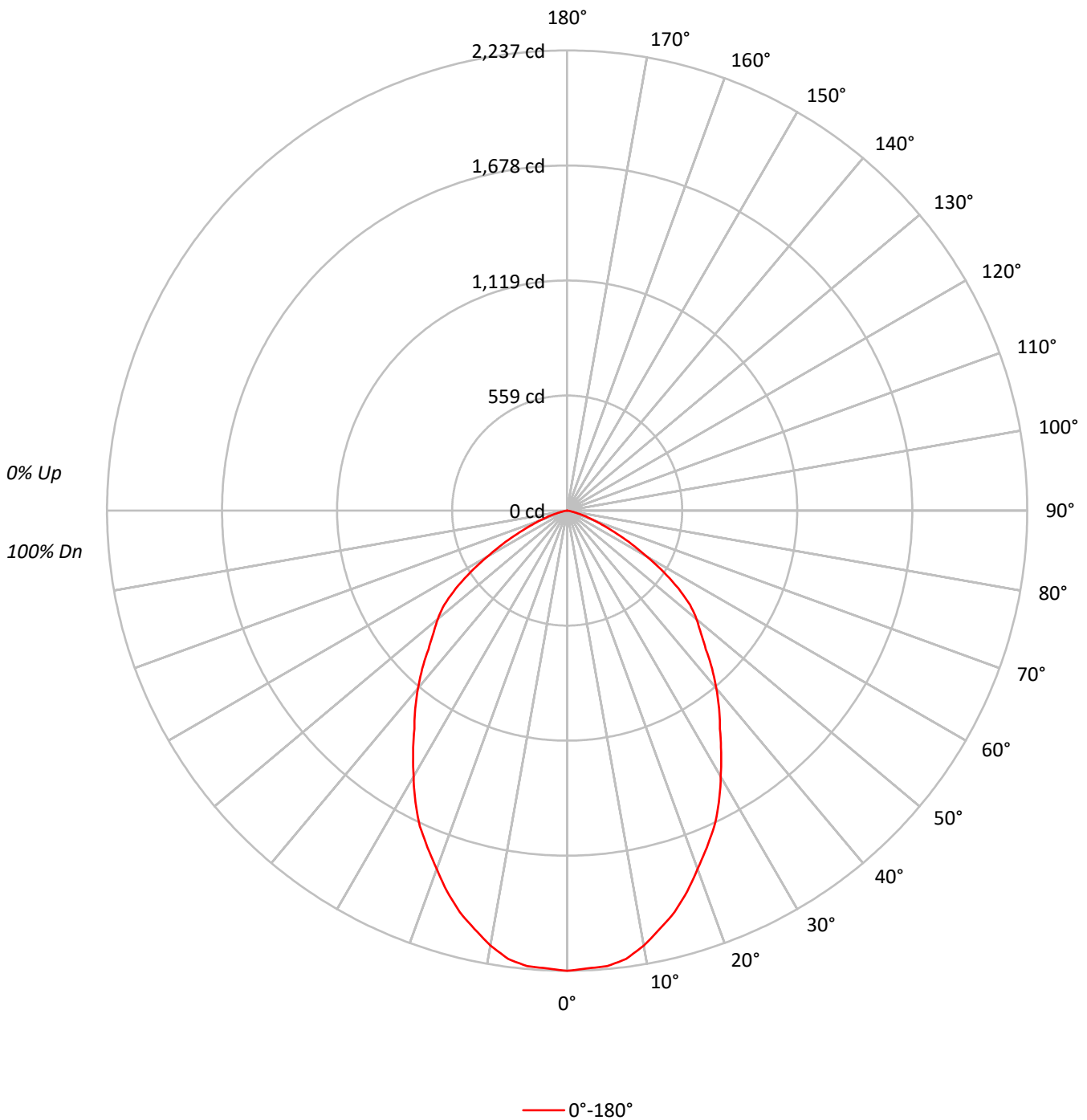
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	96	91	86	100	94	89	85	91	87	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77	73	70	68
4	88	78	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	50	74	63	56	50	61	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44	42
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	42	37		47	41	37		46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68987
5°	68830
10°	67218
15°	64490
20°	60826
25°	57620
30°	53182
35°	48768
40°	45410
45°	41581
50°	39405
55°	35504
60°	27728
65°	19540
70°	12316
75°	6898
80°	1936
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	5.2
10°-20°	565.9	14.0
20°-30°	775.0	19.2
30°-40°	814.2	20.2
40°-50°	742.6	18.4
50°-60°	581.2	14.4
60°-70°	273.0	6.8
70°-80°	67.4	1.7
80°-90°	1.7	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°	1550.7	38.5
0°-40°	2364.9	58.7
0°-60°	3688.7	91.5
0°-90°	4030.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2237	
5°	2224	210
15°	2020	566
25°	1694	775
35°	1296	814
45°	954	743
55°	660	581
65°	268	273
75°	58	67
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2237.2
2.5°	2227.3
5°	2223.6
7.5°	2198.3
10°	2146.7
12.5°	2083.4
15°	2020.1
17.5°	1941.4
20°	1853.6
22.5°	1773.1
25°	1693.5
27.5°	1598.5
30°	1493.6
32.5°	1393.2
35°	1295.5
37.5°	1213.1
40°	1128.1
42.5°	1043.1
45°	953.5
47.5°	881.1
50°	821.4
52.5°	753.6
55°	660.4
57.5°	556.4
60°	449.6
62.5°	353.7
65°	267.8
67.5°	193.6
70°	136.6
72.5°	93.2
75°	57.9
77.5°	31.7
80°	10.9
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)