

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: P210154

Luminaire Tested: **PR840D010 - PR8M34MDMMS - 3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210154
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: PR840D010 - PR8M34MDMMS - 3000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE METALLIC SILVER FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.7 lumens
Efficiency: N/A
Efficacy: 97.1 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

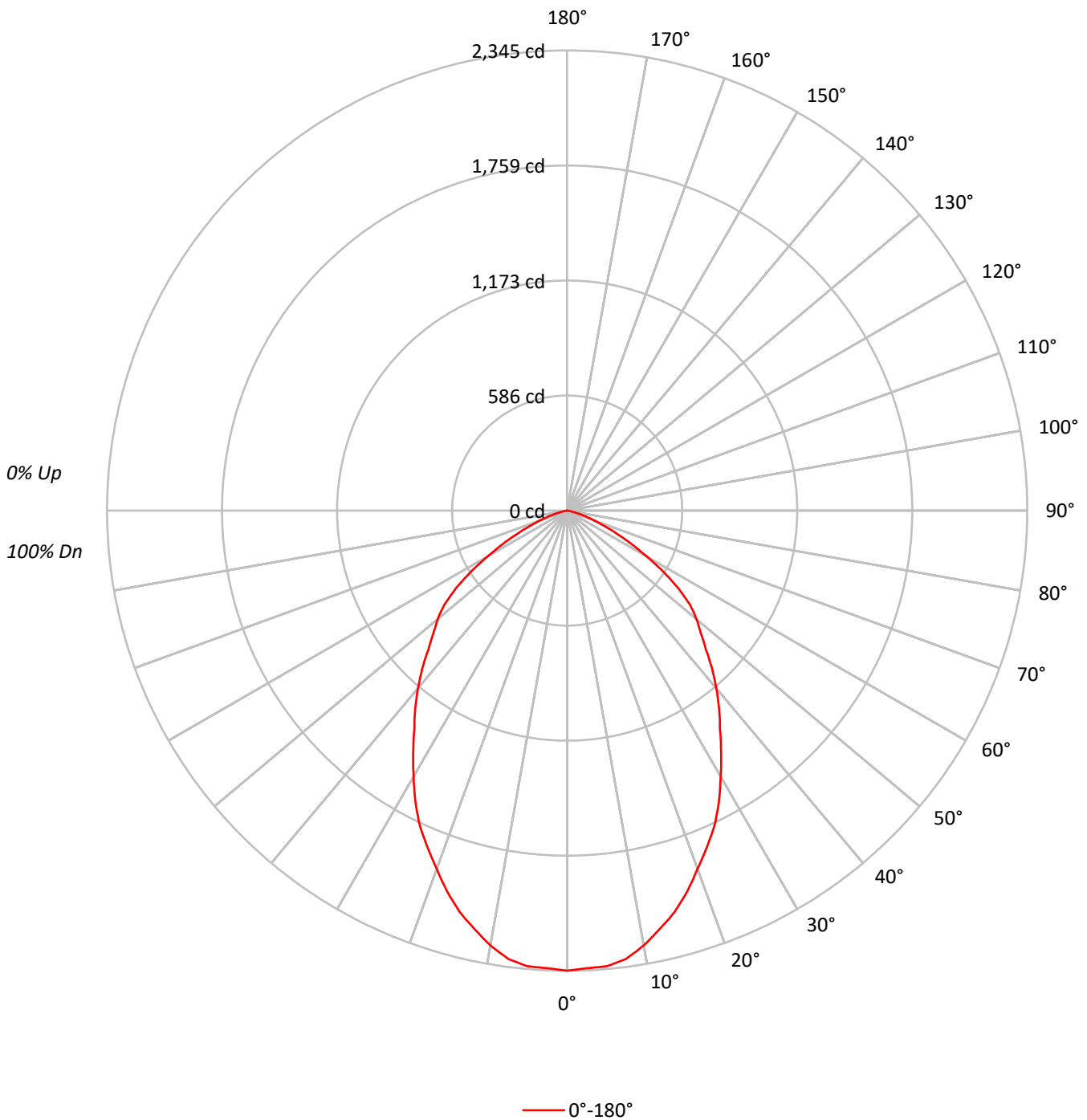
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P210154

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P210154

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3000K

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°	72305
5°	72142
10°	70452
15°	67590
20°	63754
25°	60393
30°	55739
35°	51113
40°	47596
45°	43583
50°	41300
55°	37214
60°	29060
65°	20481
70°	12911
75°	7232
80°	2024
85°	0



TEST NUMBER: P210154

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	5.2
10°-20°	593.2	14.0
20°-30°	812.2	19.2
30°-40°	853.4	20.2
40°-50°	778.3	18.4
50°-60°	609.2	14.4
60°-70°	286.1	6.8
70°-80°	70.6	1.7
80°-90°	1.8	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°	1625.3	38.5
0°-40°	2478.7	58.7
0°-60°	3866.1	91.5
0°-90°	4224.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2345	
5°	2331	220
15°	2117	593
25°	1775	812
35°	1358	853
45°	999	778
55°	692	609
65°	281	286
75°	61	71
85°	0	2
90°	0	



TEST NUMBER: P210154

CATALOG NUMBER: PR840D010 - PR8M34MDMMS - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2344.8
2.5°	2334.4
5°	2330.6
7.5°	2304.0
10°	2250.0
12.5°	2183.6
15°	2117.2
17.5°	2034.7
20°	1942.8
22.5°	1858.4
25°	1775.0
27.5°	1675.4
30°	1565.4
32.5°	1460.2
35°	1357.8
37.5°	1271.5
40°	1182.4
42.5°	1093.2
45°	999.4
47.5°	923.5
50°	860.9
52.5°	789.8
55°	692.2
57.5°	583.1
60°	471.2
62.5°	370.7
65°	280.7
67.5°	202.9
70°	143.2
72.5°	97.7
75°	60.7
77.5°	33.2
80°	11.4
82.5°	0.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)