

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: P210621

Luminaire Tested: **PR8S30D010 - PR8M34MDMB - 4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P210621
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: PR8S30D010 - PR8M34MDMB - 4000K
Description: HALO 8" ROUND DOWNLIGHT, MEDIUM LENS, MATTE BLACK FINISH
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2588.9 lumens
Efficiency: N/A
Efficacy: 90.8 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

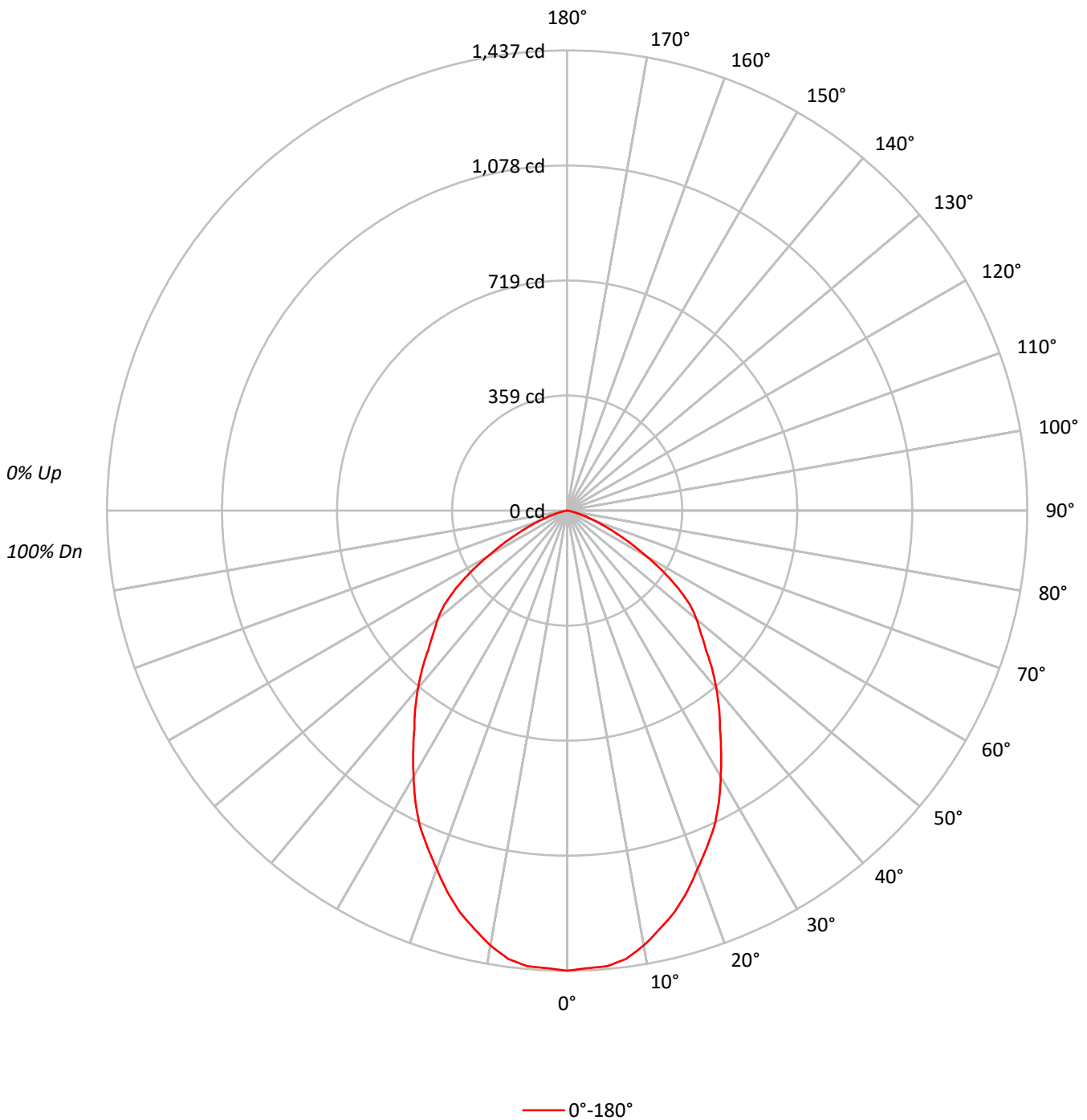
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	44309
5°	44209
10°	43173
15°	41422
20°	39070
25°	37008
30°	34158
35°	31324
40°	29168
45°	26706
50°	25310
55°	22806
60°	17811
65°	12550
70°	7907
75°	4432
80°	1243
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	5.2
10°-20°	363.5	14.0
20°-30°	497.8	19.2
30°-40°	523.0	20.2
40°-50°	476.9	18.4
50°-60°	373.3	14.4
60°-70°	175.3	6.8
70°-80°	43.2	1.7
80°-90°	1.1	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°	996.0	38.5
0°-40°	1519.0	58.7
0°-60°	2369.2	91.5
0°-90°	2588.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1437	
5°	1428	135
15°	1298	364
25°	1088	498
35°	832	523
45°	612	477
55°	424	373
65°	172	175
75°	37	43
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1436.9
2.5°	1430.5
5°	1428.2
7.5°	1411.9
10°	1378.8
12.5°	1338.2
15°	1297.5
17.5°	1246.9
20°	1190.6
22.5°	1138.9
25°	1087.7
27.5°	1026.7
30°	959.3
32.5°	894.8
35°	832.1
37.5°	779.2
40°	724.6
42.5°	669.9
45°	612.4
47.5°	565.9
50°	527.6
52.5°	484.0
55°	424.2
57.5°	357.3
60°	288.8
62.5°	227.2
65°	172.0
67.5°	124.3
70°	87.7
72.5°	59.8
75°	37.2
77.5°	20.3
80°	7.0
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)