

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: P345280

Luminaire Tested: **PR4FS24D010 PR4M24MD8FSBZ 4000Lm3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P345280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1908-453-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR4FS24D010 PR4M24MD8FSBZ 4000Lm3000K
Description: PR4 MEDIUM LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2947.5 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1/1/2001
Luminous Opening: Circular (Dia: 0.4' x H: 0')
CIE Type: Direct

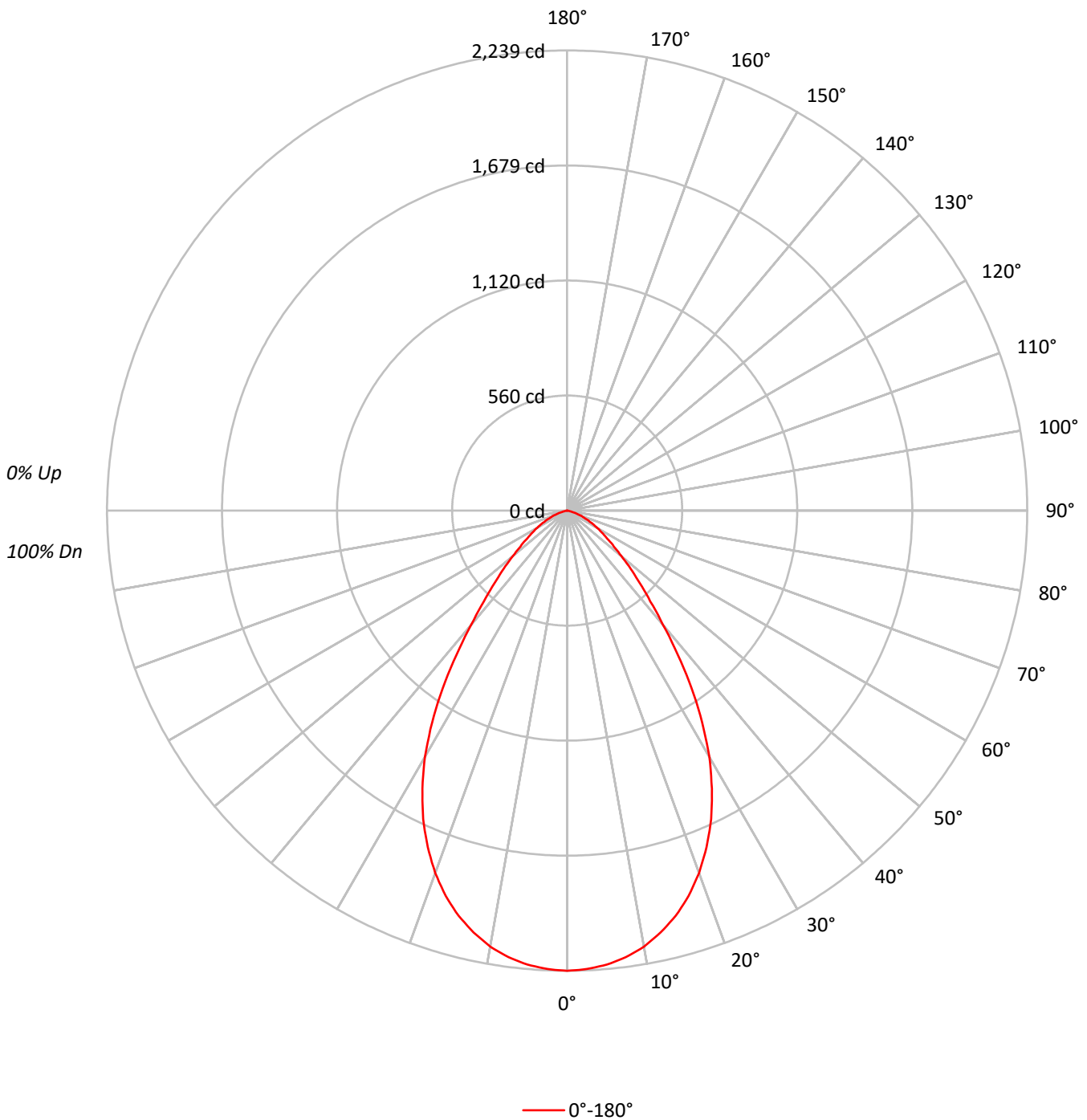
Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	76		81	78	75	73
4	92	83	76	71	90	82	76	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	64	85	75	69	64	73	68	63		72	67	63		70	66	62	60
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65	60	57	55
7	76	65	58	53	75	65	58	53	63	57	53		62	57	52		61	56	52	51
8	72	61	54	49	70	60	53	49	59	53	49		58	52	48		57	52	48	47
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53	48	45	43
10	64	53	46	42	63	53	46	42	52	46	42		51	45	42		50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195870
5°	194713
10°	191369
15°	184877
20°	174680
25°	159939
30°	139735
35°	112717
40°	82829
45°	61788
50°	46702
55°	36432
60°	29635
65°	22932
70°	16674
75°	8077
80°	2166
85°	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	7.1
10°-20°	571.8	19.4
20°-30°	755.2	25.6
30°-40°	654.1	22.2
40°-50°	393.4	13.3
50°-60°	219.2	7.4
60°-70°	112.0	3.8
70°-80°	29.0	1.0
80°-90°	3.0	0.1
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°	1536.7	52.1
0°-40°	2190.8	74.3
0°-60°	2803.5	95.1
0°-90°	2947.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2239	
5°	2218	210
15°	2042	572
25°	1657	755
35°	1056	654
45°	500	393
55°	239	219
65°	111	112
75°	24	29
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2239.3
2.5°	2232.8
5°	2217.6
7.5°	2191.5
10°	2154.6
12.5°	2102.4
15°	2041.6
17.5°	1965.6
20°	1876.6
22.5°	1772.3
25°	1657.2
27.5°	1524.7
30°	1383.5
32.5°	1222.8
35°	1055.6
37.5°	884.0
40°	725.4
42.5°	599.5
45°	499.5
47.5°	419.2
50°	343.2
52.5°	286.7
55°	238.9
57.5°	202.0
60°	169.4
62.5°	139.0
65°	110.8
67.5°	86.9
70°	65.2
72.5°	43.4
75°	23.9
77.5°	8.7
80°	4.3
82.5°	4.3
85°	2.2
87.5°	2.2
90°	0.0

(END OF REPORT)