

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: P238287

Luminaire Tested: **PRS640D010-S6M24-61SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-23)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4224.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.87 / 0.9
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

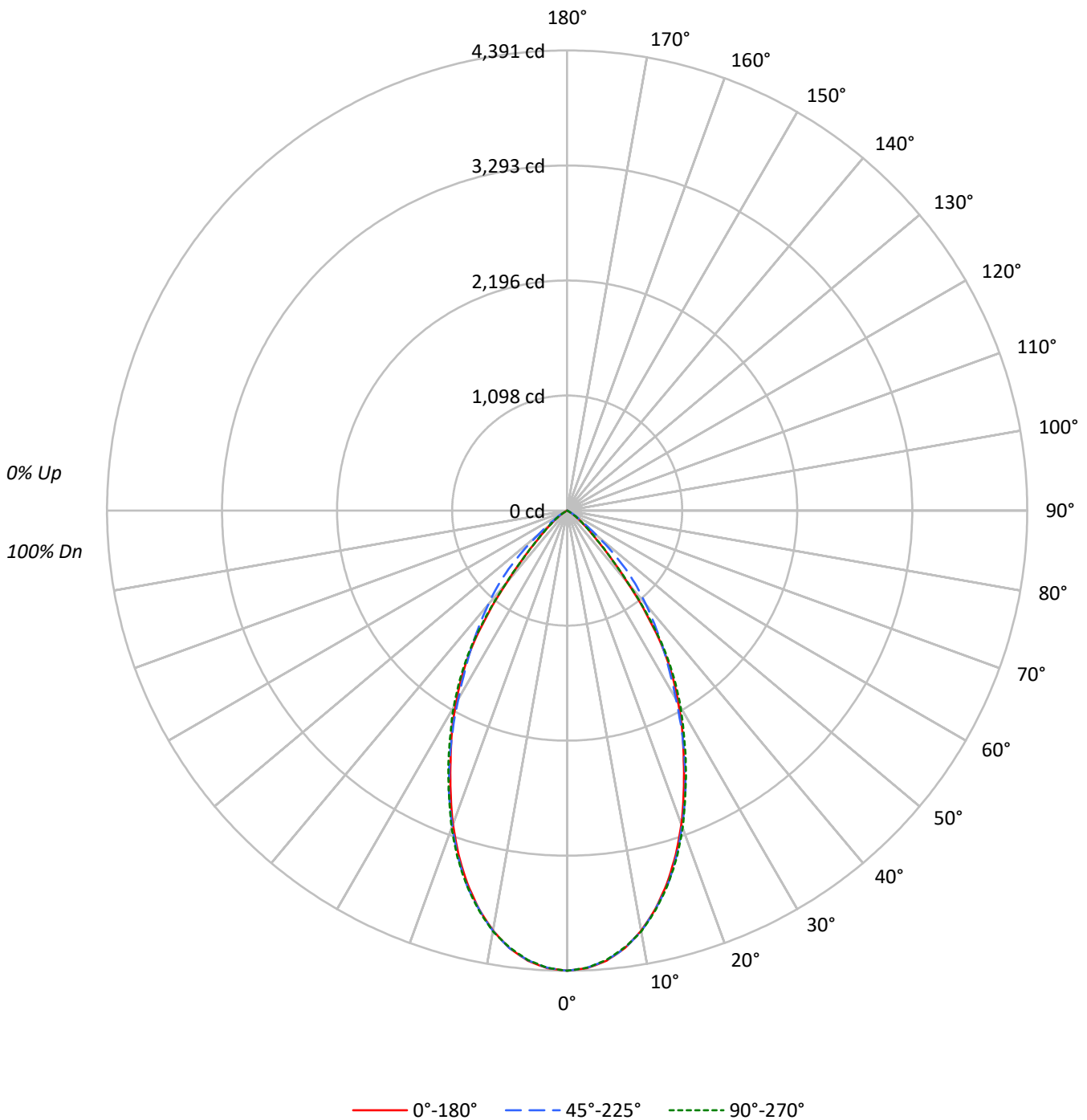
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86	86	86	86		
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67	67	67	67		
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62	62	62	62	62	62	62		
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58	58	58	58		
8	77	67	60	56	76	66	60	56	65	60	56	64	59	55	63	59	55	54	54	54	54	54	54	54		
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	189040	189040	189040
5°	186339	186166	185998
10°	177935	178106	178281
15°	164119	165001	165001
20°	146025	146753	147660
25°	125076	126201	127332
30°	105498	103137	107666
35°	83031	83446	84902
40°	50512	65642	51400
45°	25555	48213	26037
50°	14053	24395	14053
55°	7724	10104	8024
60°	2049	4435	2049
65°	0	1610	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.8	9.6
10°-20°	1029.2	24.4
20°-30°	1215.3	28.8
30°-40°	992.1	23.5
40°-50°	455.4	10.8
50°-60°	118.3	2.8
60°-70°	10.0	0.2
70°-80°	0.0	0.0
80°-90°	0.0	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°	2648.2	62.7
0°-40°	3640.3	86.2
0°-60°	4214.0	99.8
0°-90°	4224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4391	4391	4391	4391	4391	
5°	4311	4311	4307	4307	4304	404
15°	3682	3690	3702	3706	3702	1025
25°	2633	2629	2656	2672	2680	1210
35°	1580	1623	1588	1647	1615	958
45°	420	519	792	523	428	359
55°	103	127	135	127	107	97
65°	0	0	16	0	0	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4390.6	4390.6	4390.6	4390.6	4390.6
2.5°	4370.8	4370.8	4366.8	4366.8	4366.8
5°	4311.4	4311.4	4307.4	4307.4	4303.5
7.5°	4212.4	4212.4	4212.4	4208.4	4204.5
10°	4069.9	4069.9	4073.8	4073.8	4077.8
12.5°	3891.7	3895.7	3895.7	3903.6	3903.6
15°	3681.9	3689.8	3701.7	3705.7	3701.7
17.5°	3444.4	3452.3	3464.2	3480.0	3476.0
20°	3187.0	3191.0	3202.9	3226.6	3222.7
22.5°	2905.9	2913.8	2945.5	2953.4	2945.5
25°	2632.8	2628.8	2656.5	2672.3	2680.3
27.5°	2383.3	2363.5	2367.5	2391.3	2415.0
30°	2122.0	2114.1	2074.5	2137.9	2165.6
32.5°	1864.7	1868.7	1817.2	1884.5	1900.3
35°	1579.7	1623.2	1587.6	1647.0	1615.3
37.5°	1239.2	1357.9	1369.8	1377.7	1270.8
40°	898.7	1053.1	1167.9	1061.0	914.5
42.5°	625.5	752.2	985.8	768.1	621.6
45°	419.7	518.6	791.8	522.6	427.6
47.5°	293.0	348.4	574.1	352.4	293.0
50°	209.8	241.5	364.2	245.5	209.8
52.5°	154.4	174.2	221.7	174.2	154.4
55°	102.9	126.7	134.6	126.7	106.9
57.5°	63.3	83.1	87.1	83.1	59.4
60°	23.8	43.5	51.5	43.5	23.8
62.5°	4.0	11.9	31.7	15.8	4.0
65°	0.0	0.0	15.8	0.0	0.0
67.5°	0.0	0.0	4.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)