

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: P238182

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-61SNDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4366.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

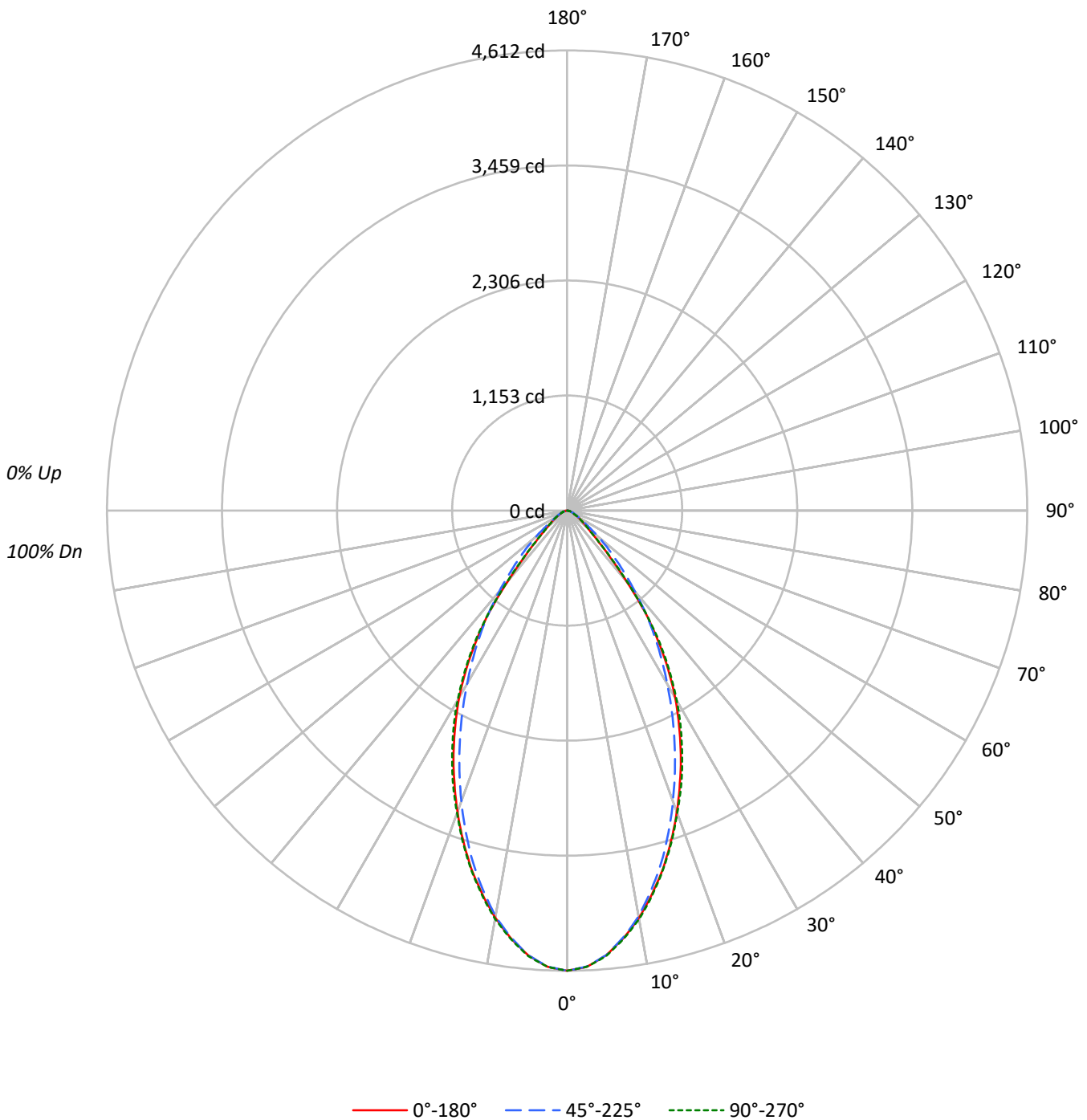
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238182

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW

Luminous Intensity Polar Plot





TEST NUMBER: P238182

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW

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			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77					77			
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71					71			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65					65			
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60					60			
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56					56			
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52					52			
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49					49			
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45					45			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	198568	198568	198568
5°	193337	193337	193678
10°	181206	180515	181726
15°	165514	162692	165871
20°	147280	142020	147825
25°	128073	120923	129574
30°	107656	99786	109232
35°	83231	79898	85102
40°	52063	59628	53176
45°	27480	41460	27961
50°	17235	27048	17503
55°	12776	15749	13076
60°	9541	10910	9541
65°	7264	8466	7264
70°	6483	6974	6483
75°	5922	5922	5922
80°	4909	4909	4909
85°	3903	3903	3903



TEST NUMBER: P238182

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	9.5
10°-20°	1025.6	23.5
20°-30°	1201.2	27.5
30°-40°	959.6	22.0
40°-50°	456.2	10.4
50°-60°	179.3	4.1
60°-70°	79.8	1.8
70°-80°	38.1	0.9
80°-90°	10.4	0.2
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°	2643.1	60.5
0°-40°	3602.7	82.5
0°-60°	4238.3	97.1
0°-90°	4366.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4366.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4612	4612	4612	4612	4612	
5°	4473	4473	4473	4477	4481	416
15°	3713	3674	3650	3682	3721	1035
25°	2696	2617	2545	2632	2728	1232
35°	1584	1524	1520	1544	1619	973
45°	451	542	681	550	459	383
55°	170	190	210	194	174	157
65°	71	75	83	75	71	74
75°	36	36	36	36	36	38
85°	8	8	8	8	8	10
90°	0	0	0	0	0	



TEST NUMBER: P238182

CATALOG NUMBER: PRS640D010-S6M24-61SNDMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4611.9	4611.9	4611.9	4611.9	4611.9
2.5°	4576.2	4576.2	4572.3	4576.2	4576.2
5°	4473.3	4473.3	4473.3	4477.3	4481.2
7.5°	4322.9	4322.9	4315.0	4326.8	4330.8
10°	4144.7	4132.9	4128.9	4136.8	4156.6
12.5°	3934.9	3915.1	3895.3	3919.1	3946.8
15°	3713.2	3673.7	3649.9	3681.6	3721.2
17.5°	3467.8	3416.3	3380.7	3428.2	3479.7
20°	3214.4	3159.0	3099.6	3166.9	3226.3
22.5°	2953.2	2881.9	2822.5	2901.7	2984.8
25°	2695.9	2616.7	2545.4	2632.5	2727.5
27.5°	2430.6	2343.5	2272.3	2367.3	2470.2
30°	2165.4	2074.3	2007.1	2106.0	2197.1
32.5°	1880.4	1789.3	1757.7	1821.0	1908.1
35°	1583.5	1524.1	1520.1	1543.9	1619.1
37.5°	1278.7	1270.7	1282.6	1286.6	1286.6
40°	926.3	1009.5	1060.9	1029.3	946.1
42.5°	641.3	756.1	851.1	768.0	661.1
45°	451.3	542.3	680.9	550.3	459.2
47.5°	328.6	399.8	538.4	403.8	332.5
50°	257.3	300.9	403.8	296.9	261.3
52.5°	209.8	237.5	289.0	237.5	213.8
55°	170.2	190.0	209.8	194.0	174.2
57.5°	142.5	154.4	158.3	158.3	142.5
60°	110.8	122.7	126.7	122.7	110.8
62.5°	83.1	95.0	102.9	99.0	83.1
65°	71.3	75.2	83.1	75.2	71.3
67.5°	63.3	63.3	67.3	63.3	63.3
70°	51.5	55.4	55.4	55.4	51.5
72.5°	43.5	43.5	43.5	43.5	43.5
75°	35.6	35.6	35.6	35.6	35.6
77.5°	27.7	27.7	27.7	27.7	27.7
80°	19.8	19.8	19.8	23.8	19.8
82.5°	15.8	15.8	15.8	15.8	15.8
85°	7.9	7.9	7.9	7.9	7.9
87.5°	4.0	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)