

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: P238321

Luminaire Tested: **PRS630D010-S6M24-64SNDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SNDMB-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2873.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.89
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

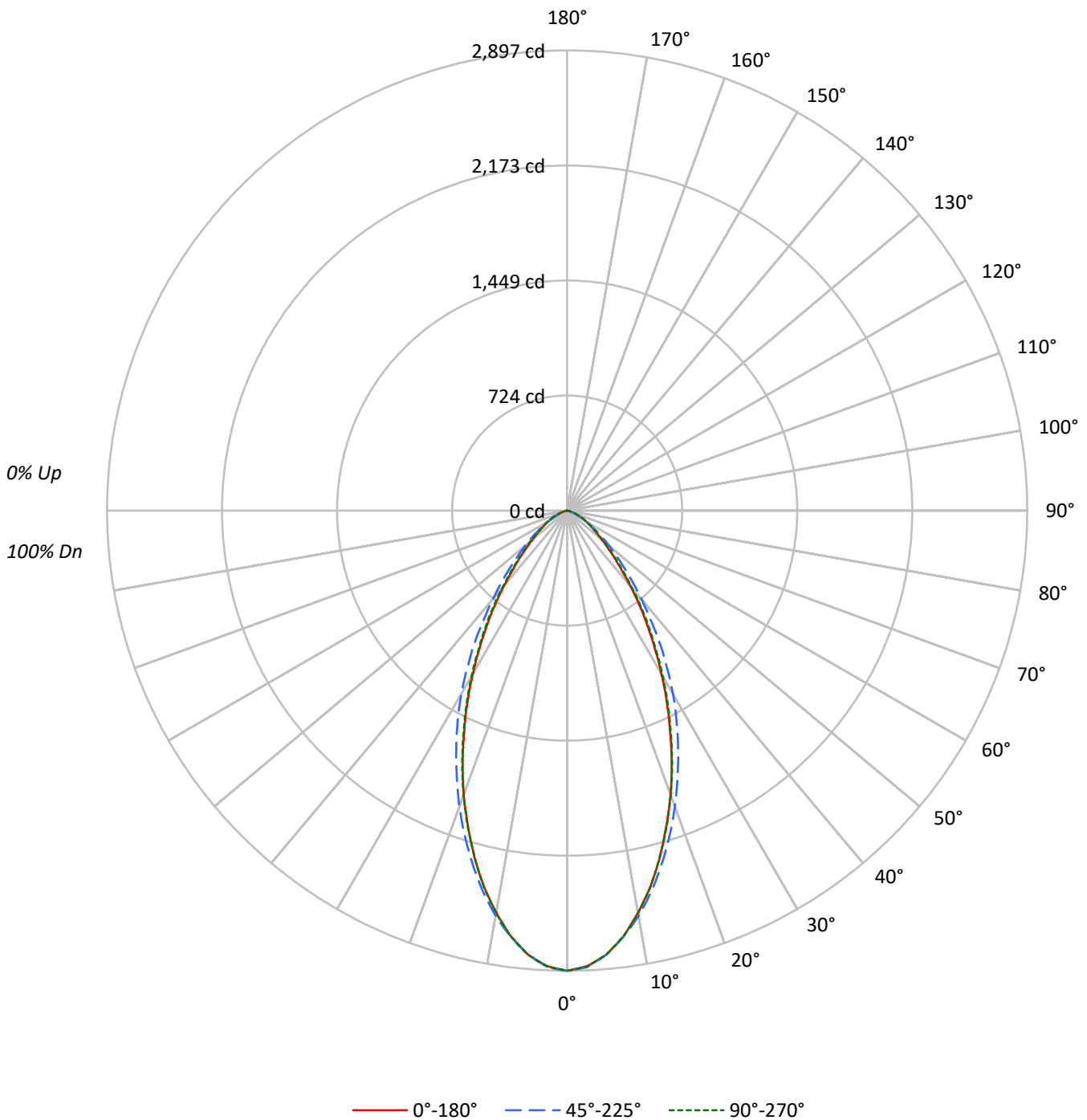
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238321

CATALOG NUMBER: PRS630D010-S6M24-64SNDMB-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P238321

CATALOG NUMBER: PRS630D010-S6M24-64SNDMB-4000K

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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92					92			
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83					83			
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75					75			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	52	48	56	51	48	46					46			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	124749	124749	124749
5°	121353	121353	121353
10°	112382	113304	112496
15°	100596	102593	100475
20°	87216	90841	87335
25°	72894	78529	73393
30°	58984	66192	59769
35°	46144	53350	47116
40°	34673	40749	35561
45°	25525	30664	26487
50°	19070	22955	19954
55°	14840	16822	15238
60°	12030	11582	12262
65°	8863	7794	9128
70°	5980	4973	5980
75°	2628	2196	2628
80°	0	0	0
85°	0	0	0



TEST NUMBER: P238321

CATALOG NUMBER: PRS630D010-S6M24-64SNDMB-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	9.1
10°-20°	635.0	22.1
20°-30°	729.0	25.4
30°-40°	590.2	20.5
40°-50°	361.8	12.6
50°-60°	194.1	6.8
60°-70°	83.9	2.9
70°-80°	18.1	0.6
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°	1624.8	56.6
0°-40°	2215.0	77.1
0°-60°	2770.9	96.4
0°-90°	2873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2808	2808	2808	2808	2808	260
15°	2257	2278	2302	2280	2254	628
25°	1534	1587	1653	1590	1545	703
35°	878	933	1015	944	896	550
45°	419	451	504	456	435	330
55°	198	214	224	216	203	181
65°	87	82	76	82	90	89
75°	16	16	13	16	16	19
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238321

CATALOG NUMBER: PRS630D010-S6M24-64SNDMB-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	2871.1	2873.7	2876.3	2873.7	2873.7
5°	2807.8	2807.8	2807.8	2807.8	2807.8
7.5°	2705.0	2710.2	2707.6	2707.6	2705.0
10°	2570.5	2583.7	2591.6	2583.7	2573.1
12.5°	2422.9	2438.7	2454.5	2436.0	2425.5
15°	2256.8	2277.9	2301.6	2280.5	2254.1
17.5°	2077.5	2111.8	2146.0	2111.8	2082.8
20°	1903.5	1943.0	1982.6	1940.4	1906.1
22.5°	1718.9	1755.9	1816.5	1761.1	1726.9
25°	1534.4	1587.1	1653.0	1589.8	1544.9
27.5°	1357.8	1413.1	1492.2	1423.7	1370.9
30°	1186.4	1247.0	1331.4	1257.6	1202.2
32.5°	1025.6	1086.2	1167.9	1096.7	1041.4
35°	877.9	933.3	1015.0	943.8	896.4
37.5°	743.5	788.3	859.5	798.8	761.9
40°	616.9	659.1	725.0	667.0	632.7
42.5°	506.2	545.7	609.0	556.3	527.3
45°	419.2	450.8	503.6	456.1	435.0
47.5°	345.4	374.4	416.6	377.0	358.6
50°	284.7	308.5	342.7	313.7	297.9
52.5°	237.3	258.4	284.7	261.0	245.2
55°	197.7	213.5	224.1	216.2	203.0
57.5°	166.1	171.4	174.0	174.0	171.4
60°	139.7	134.5	134.5	137.1	142.4
62.5°	116.0	105.5	102.8	108.1	118.6
65°	87.0	81.7	76.5	81.7	89.6
67.5°	65.9	58.0	55.4	60.6	68.5
70°	47.5	42.2	39.5	42.2	47.5
72.5°	29.0	29.0	23.7	29.0	29.0
75°	15.8	15.8	13.2	15.8	15.8
77.5°	5.3	5.3	2.6	5.3	7.9
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)