

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: P238041

Luminaire Tested: **PRS630D010-S6M24-64SNDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SNDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2825.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

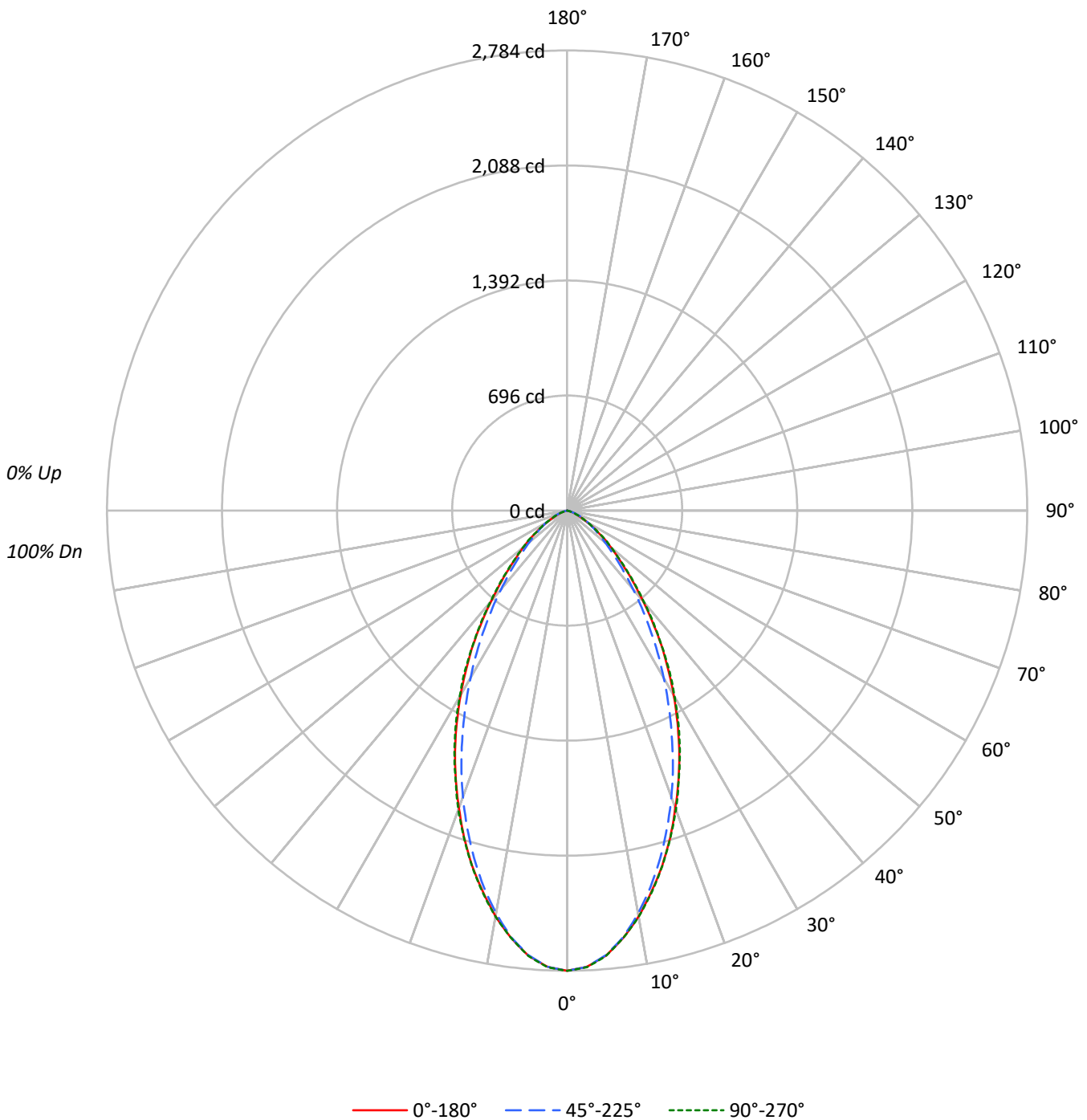
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83					83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75					75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68					68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62					62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	56	76	66	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	119876	119876	119876
5°	116776	116668	116885
10°	108963	108202	109072
15°	99085	96972	99196
20°	87674	84476	88247
25°	76210	71113	76681
30°	64124	58049	64621
35°	52188	45765	52319
40°	40102	34915	40664
45°	30232	26280	30835
50°	23062	20055	23565
55°	17227	15734	17227
60°	12030	12676	12245
65°	8130	9658	8385
70°	5652	6282	5338
75°	2495	2911	2495
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	8.9
10°-20°	612.9	21.7
20°-30°	709.0	25.1
30°-40°	580.4	20.5
40°-50°	363.0	12.8
50°-60°	199.7	7.1
60°-70°	89.1	3.2
70°-80°	20.4	0.7
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°	1572.8	55.7
0°-40°	2153.2	76.2
0°-60°	2715.9	96.1
0°-90°	2825.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2825.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2784	2784	2784	2784	2784	
5°	2702	2699	2699	2704	2704	251
15°	2223	2198	2176	2203	2225	619
25°	1604	1542	1497	1549	1614	733
35°	993	918	871	926	995	617
45°	496	454	432	462	506	390
55°	230	220	210	224	230	208
65°	80	87	95	87	82	84
75°	15	18	18	18	15	18
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°	2784.2	2784.2	2784.2	2784.2	2784.2
2.5°	2761.8	2764.3	2761.8	2764.3	2764.3
5°	2701.9	2699.4	2699.4	2704.4	2704.4
7.5°	2607.1	2604.6	2602.1	2607.1	2607.1
10°	2492.3	2487.3	2474.9	2489.8	2494.8
12.5°	2360.1	2350.1	2332.7	2350.1	2365.1
15°	2222.9	2197.9	2175.5	2202.9	2225.4
17.5°	2073.2	2040.8	2010.8	2038.3	2075.7
20°	1913.5	1876.1	1843.7	1878.6	1926.0
22.5°	1761.3	1709.0	1671.5	1713.9	1763.8
25°	1604.2	1541.8	1496.9	1549.3	1614.1
27.5°	1444.5	1377.1	1329.7	1387.1	1459.5
30°	1289.8	1217.5	1167.6	1229.9	1299.8
32.5°	1135.1	1067.8	1017.9	1077.8	1152.6
35°	992.9	918.1	870.7	925.6	995.4
37.5°	845.7	778.4	741.0	788.4	858.2
40°	713.5	653.6	621.2	663.6	723.5
42.5°	598.8	546.4	518.9	551.4	611.2
45°	496.5	454.1	431.6	461.5	506.4
47.5°	411.6	379.2	356.8	384.2	419.1
50°	344.3	314.3	299.4	319.3	351.8
52.5°	284.4	264.5	247.0	266.9	291.9
55°	229.5	219.5	209.6	224.5	229.5
57.5°	179.6	177.1	174.6	179.6	182.1
60°	139.7	142.2	147.2	142.2	142.2
62.5°	107.3	112.3	122.2	112.3	109.8
65°	79.8	87.3	94.8	87.3	82.3
67.5°	59.9	64.9	69.9	64.9	59.9
70°	44.9	47.4	49.9	47.4	42.4
72.5°	27.4	32.4	32.4	32.4	27.4
75°	15.0	17.5	17.5	17.5	15.0
77.5°	2.5	7.5	7.5	7.5	2.5
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)