

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: P238056

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDH-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM 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: 2773.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

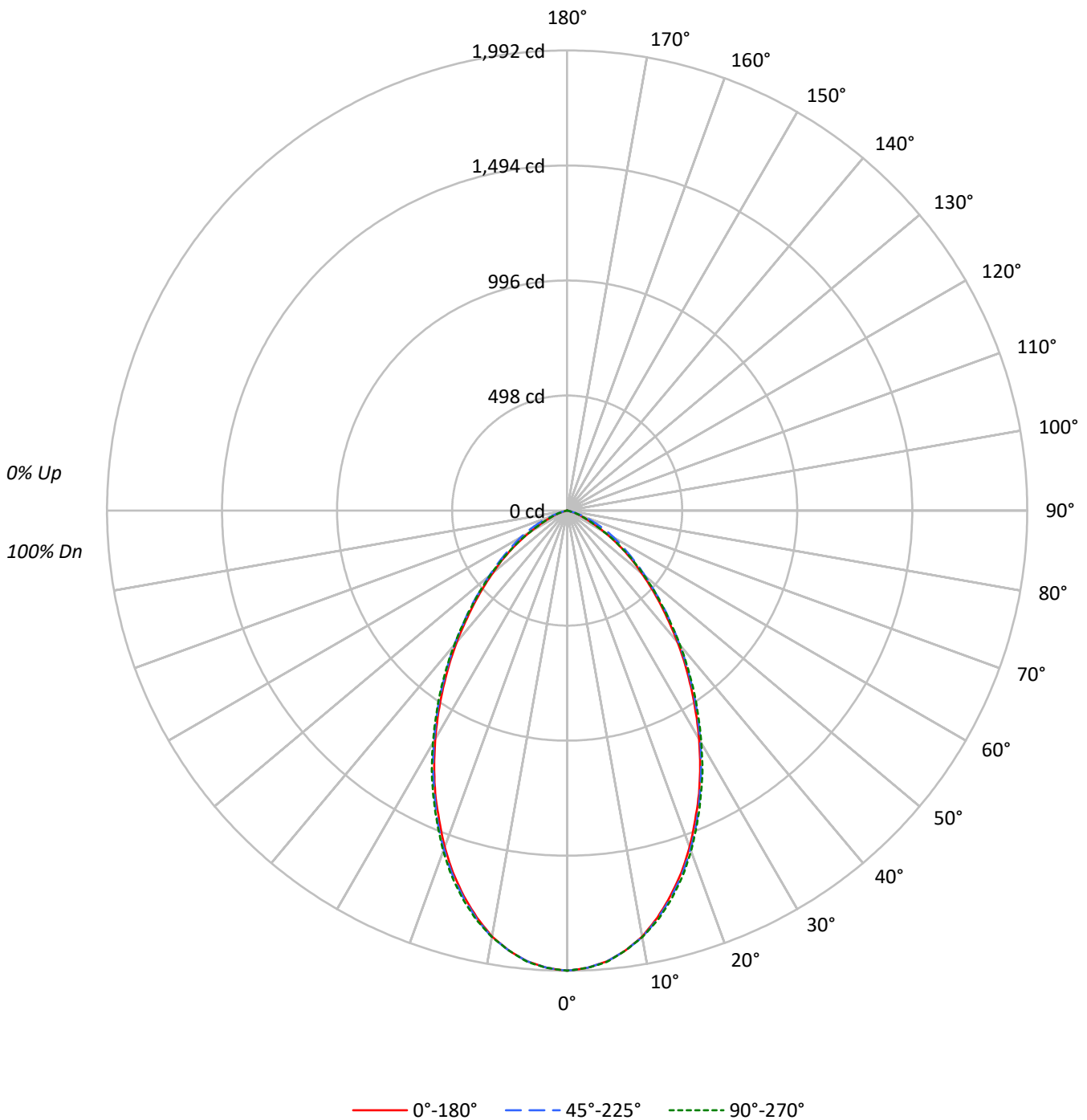
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238056

CATALOG NUMBER: PRS630D010-S6M24-64SMDH-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P238056

CATALOG NUMBER: PRS630D010-S6M24-64SMDH-3000K

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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	85750	85750	85750
5°	84677	84677	84785
10°	81844	81953	81953
15°	76998	77332	77667
20°	71038	71496	71839
25°	64182	64538	65013
30°	56756	57253	57751
35°	49134	49917	50312
40°	41749	42592	42733
45°	34604	35822	35365
50°	28052	29553	28883
55°	22264	24321	22640
60°	15888	19961	15888
65°	10412	15241	10667
70°	6899	9416	7213
75°	3310	4142	3310
80°	0	620	0
85°	0	0	0



TEST NUMBER: P238056

CATALOG NUMBER: PRS630D010-S6M24-64SMDH-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.3	6.6
10°-20°	485.3	17.5
20°-30°	622.8	22.5
30°-40°	592.0	21.3
40°-50°	452.0	16.3
50°-60°	282.4	10.2
60°-70°	126.2	4.5
70°-80°	27.9	1.0
80°-90°	0.1	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°	1292.4	46.6
0°-40°	1884.4	68.0
0°-60°	2618.9	94.4
0°-90°	2773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1959	1959	1959	1962	1962	184
15°	1727	1730	1735	1740	1742	483
25°	1351	1354	1358	1364	1368	618
35°	935	945	950	952	957	584
45°	568	581	588	591	581	440
55°	297	314	324	319	302	266
65°	102	117	150	120	105	107
75°	20	25	25	25	20	23
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P238056

CATALOG NUMBER: PRS630D010-S6M24-64SMDH-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1991.6	1991.6	1991.6	1991.6	1991.6
2.5°	1981.7	1981.7	1981.7	1981.7	1981.7
5°	1959.2	1959.2	1959.2	1961.7	1961.7
7.5°	1921.9	1921.9	1921.9	1924.3	1921.9
10°	1872.0	1872.0	1874.5	1874.5	1874.5
12.5°	1804.7	1807.2	1809.7	1812.2	1814.7
15°	1727.4	1729.9	1734.9	1739.9	1742.4
17.5°	1642.7	1642.7	1652.6	1660.1	1660.1
20°	1550.4	1552.9	1560.4	1562.9	1567.9
22.5°	1448.2	1455.7	1463.2	1465.7	1468.2
25°	1351.0	1353.5	1358.5	1363.5	1368.5
27.5°	1246.3	1248.8	1256.3	1258.8	1268.8
30°	1141.6	1146.6	1151.6	1156.6	1161.6
32.5°	1037.0	1041.9	1049.4	1051.9	1056.9
35°	934.8	944.7	949.7	952.2	957.2
37.5°	837.5	847.5	850.0	857.5	857.5
40°	742.8	752.8	757.8	762.8	760.3
42.5°	650.6	663.1	668.0	675.5	668.0
45°	568.3	580.8	588.3	590.8	580.8
47.5°	491.1	506.0	508.5	511.0	506.0
50°	418.8	433.7	441.2	443.7	431.2
52.5°	358.9	371.4	378.9	376.4	366.4
55°	296.6	314.1	324.0	319.1	301.6
57.5°	239.3	259.2	274.2	261.7	244.3
60°	184.5	206.9	231.8	211.9	184.5
62.5°	137.1	159.5	191.9	159.5	137.1
65°	102.2	117.2	149.6	119.6	104.7
67.5°	74.8	87.2	112.2	87.2	77.3
70°	54.8	64.8	74.8	64.8	57.3
72.5°	37.4	44.9	44.9	44.9	37.4
75°	19.9	24.9	24.9	24.9	19.9
77.5°	2.5	7.5	10.0	7.5	2.5
80°	0.0	0.0	2.5	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)