

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: P238111

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS630D010-S6M24-64SMDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2946.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

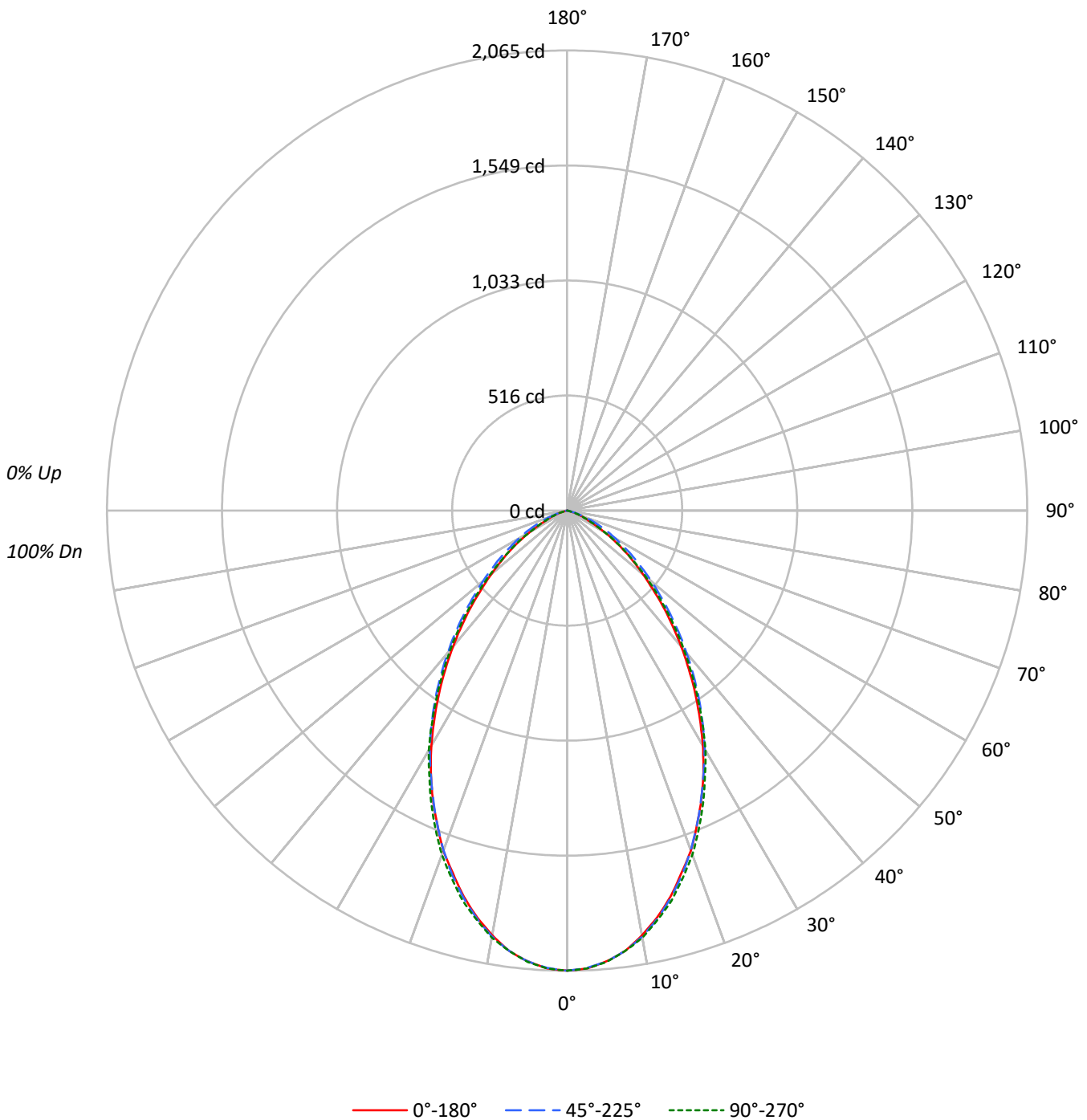
Input Watts (W): 25.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	103	109	106	103	101	102	100	98	98	96	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	87	82	77	85	80	76	82	78	74	80	76	73	71					71			
4	91	81	74	69	89	80	73	68	77	72	67	75	70	66	73	69	66	64					64			
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57					57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	63	55	50	72	62	55	50	60	54	50	59	53	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	88897	88897	88897
5°	87754	87754	87867
10°	84620	84847	85079
15°	79927	80158	80747
20°	74424	74304	75271
25°	67768	67645	68647
30°	60565	61350	61748
35°	52666	54191	53639
40°	44756	46830	45796
45°	37088	39658	38050
50°	29673	33029	30558
55°	23353	27114	23751
60°	16576	21347	16800
65°	10748	16117	11013
70°	7301	9958	7301
75°	3510	4392	3510
80°	0	645	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.1	6.5
10°-20°	503.9	17.1
20°-30°	656.0	22.3
30°-40°	636.2	21.6
40°-50°	491.7	16.7
50°-60°	304.1	10.3
60°-70°	134.1	4.6
70°-80°	29.5	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°	1351.0	45.8
0°-40°	1987.2	67.4
0°-60°	2783.1	94.4
0°-90°	2946.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2030	2033	2030	2033	2033	191
15°	1793	1796	1798	1809	1812	502
25°	1426	1424	1424	1437	1445	654
35°	1002	1013	1031	1023	1020	625
45°	609	633	651	643	625	470
55°	311	335	361	340	316	279
65°	106	127	158	127	108	111
75°	21	26	26	26	21	24
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°	2064.7	2064.7	2064.7	2064.7	2064.7
2.5°	2056.7	2056.7	2054.1	2056.7	2056.7
5°	2030.4	2033.0	2030.4	2033.0	2033.0
7.5°	1993.5	1993.5	1993.5	1996.1	1993.5
10°	1935.5	1938.1	1940.7	1943.4	1946.0
12.5°	1869.5	1872.2	1874.8	1880.1	1880.1
15°	1793.1	1795.7	1798.3	1808.9	1811.5
17.5°	1706.0	1708.7	1714.0	1724.5	1727.1
20°	1624.3	1616.4	1621.7	1629.6	1642.8
22.5°	1524.1	1524.1	1524.1	1534.7	1545.2
25°	1426.5	1423.9	1423.9	1437.1	1445.0
27.5°	1323.7	1323.7	1326.3	1334.2	1339.5
30°	1218.2	1218.2	1234.0	1231.4	1242.0
32.5°	1107.5	1115.4	1131.2	1125.9	1128.6
35°	1002.0	1012.6	1031.0	1023.1	1020.5
37.5°	896.5	909.7	930.8	922.9	915.0
40°	796.3	814.8	833.2	822.7	814.8
42.5°	698.8	719.9	741.0	730.4	719.9
45°	609.1	632.8	651.3	643.4	624.9
47.5°	519.5	548.5	566.9	559.0	540.6
50°	443.0	472.0	493.1	479.9	456.2
52.5°	374.4	400.8	421.9	406.1	382.3
55°	311.1	334.9	361.2	340.2	316.4
57.5°	250.5	276.9	300.6	282.1	255.8
60°	192.5	221.5	247.9	226.8	195.1
62.5°	142.4	171.4	203.0	174.0	145.0
65°	105.5	126.6	158.2	126.6	108.1
67.5°	79.1	92.3	118.7	94.9	79.1
70°	58.0	68.6	79.1	68.6	58.0
72.5°	39.6	47.5	47.5	47.5	39.6
75°	21.1	26.4	26.4	26.4	21.1
77.5°	2.6	7.9	10.5	7.9	2.6
80°	0.0	0.0	2.6	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)