

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: P241781

Luminaire Tested: **PRS430D010-S4M24-44SNDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDC-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW 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: 2329.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

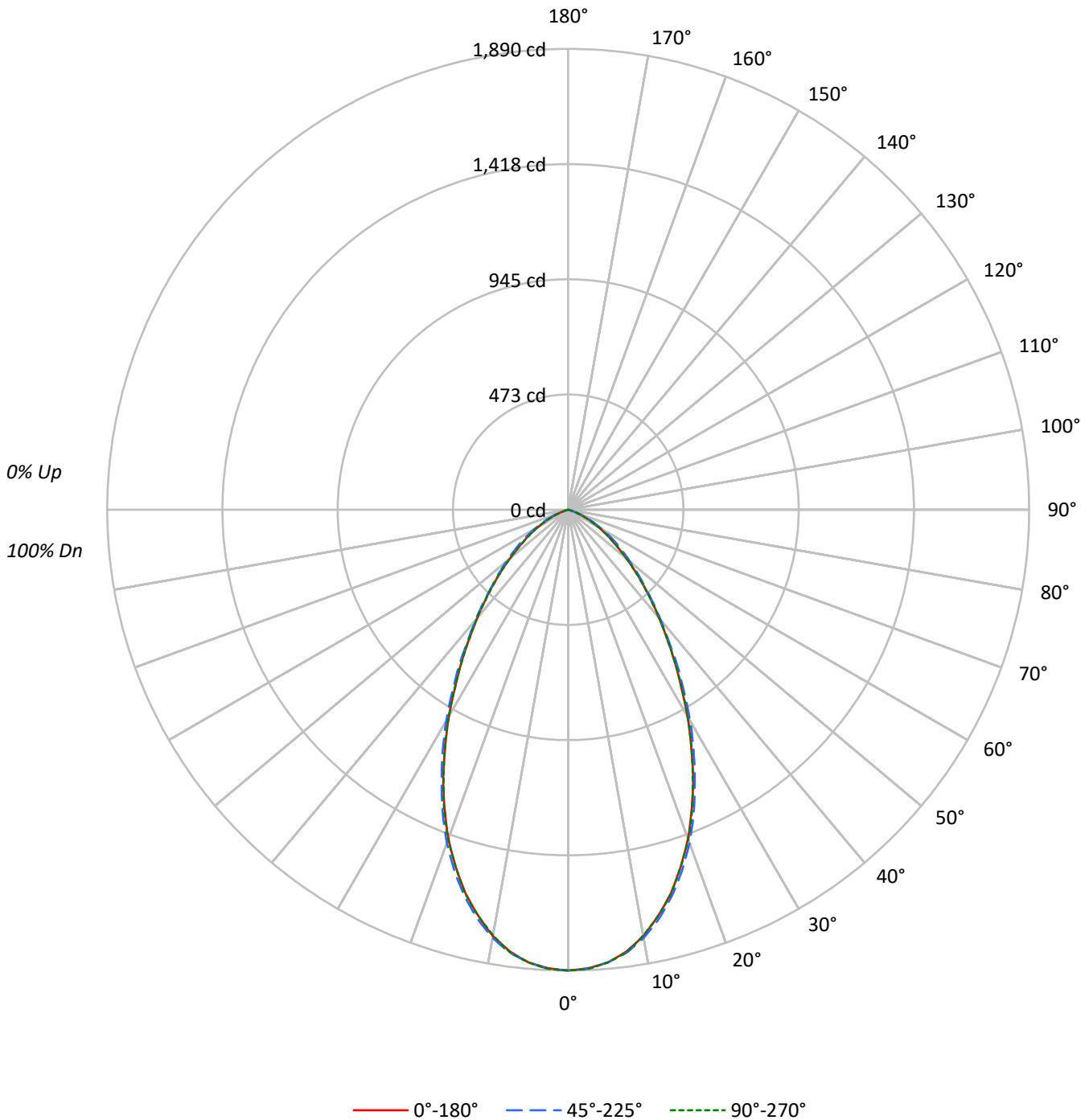
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	80	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50					50			
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	46					46			
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	42	63	52	46	42	51	45	41	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	144667	144667	144667
5°	143222	143222	143222
10°	138023	138621	137821
15°	128993	130023	129199
20°	116946	118420	117158
25°	102395	103712	101956
30°	86502	88341	86502
35°	71082	72773	71082
40°	57844	58883	58104
45°	46937	47770	46937
50°	37094	39261	37094
55°	29105	32215	29105
60°	22259	24647	22259
65°	15051	17405	15051
70°	7542	9869	7542
75°	0	2307	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	7.5
10°-20°	456.2	19.6
20°-30°	558.8	24.0
30°-40°	484.0	20.8
40°-50°	343.3	14.7
50°-60°	207.5	8.9
60°-70°	92.6	4.0
70°-80°	11.3	0.5
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°	1190.3	51.1
0°-40°	1674.3	71.9
0°-60°	2225.1	95.5
0°-90°	2329.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1890	1890	1890	1890	1890	
5°	1864	1864	1864	1864	1864	175
15°	1628	1636	1641	1638	1630	454
25°	1212	1228	1228	1225	1207	553
35°	761	776	779	774	761	477
45°	434	444	441	446	434	337
55°	218	228	241	231	218	197
65°	83	94	96	94	83	84
75°	0	3	8	3	0	8
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°	1890.0	1890.0	1890.0	1890.0	1890.0
2.5°	1882.2	1882.2	1884.8	1884.8	1884.8
5°	1864.0	1864.0	1864.0	1864.0	1864.0
7.5°	1827.7	1827.7	1832.9	1830.3	1830.3
10°	1775.8	1775.8	1783.5	1778.3	1773.2
12.5°	1705.7	1713.4	1718.6	1713.4	1705.7
15°	1627.8	1635.6	1640.8	1638.2	1630.4
17.5°	1534.3	1547.3	1552.5	1547.3	1534.3
20°	1435.7	1446.0	1453.8	1446.0	1438.3
22.5°	1324.0	1337.0	1344.8	1337.0	1329.2
25°	1212.4	1228.0	1228.0	1225.4	1207.2
27.5°	1090.4	1108.5	1113.7	1108.5	1093.0
30°	978.7	991.7	999.5	991.7	978.7
32.5°	861.9	880.1	882.7	880.1	864.5
35°	760.7	776.2	778.8	773.6	760.7
37.5°	664.6	680.2	675.0	680.2	664.6
40°	578.9	591.9	589.3	591.9	581.5
42.5°	503.6	514.0	511.4	514.0	501.1
45°	433.6	443.9	441.3	446.5	433.6
47.5°	371.2	381.6	384.2	381.6	371.2
50°	311.5	327.1	329.7	327.1	311.5
52.5°	259.6	272.6	283.0	275.2	259.6
55°	218.1	228.5	241.4	231.1	218.1
57.5°	179.1	189.5	199.9	192.1	179.1
60°	145.4	155.8	161.0	155.8	145.4
62.5°	111.6	124.6	127.2	124.6	111.6
65°	83.1	93.5	96.1	93.5	83.1
67.5°	57.1	67.5	67.5	67.5	57.1
70°	33.7	41.5	44.1	44.1	33.7
72.5°	13.0	20.8	23.4	20.8	15.6
75°	0.0	2.6	7.8	2.6	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
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)