

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: P241726

Luminaire Tested: **PRS430D010-S4M24-44SNDH-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-43)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SNDH-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" 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: 2195.2 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.92
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

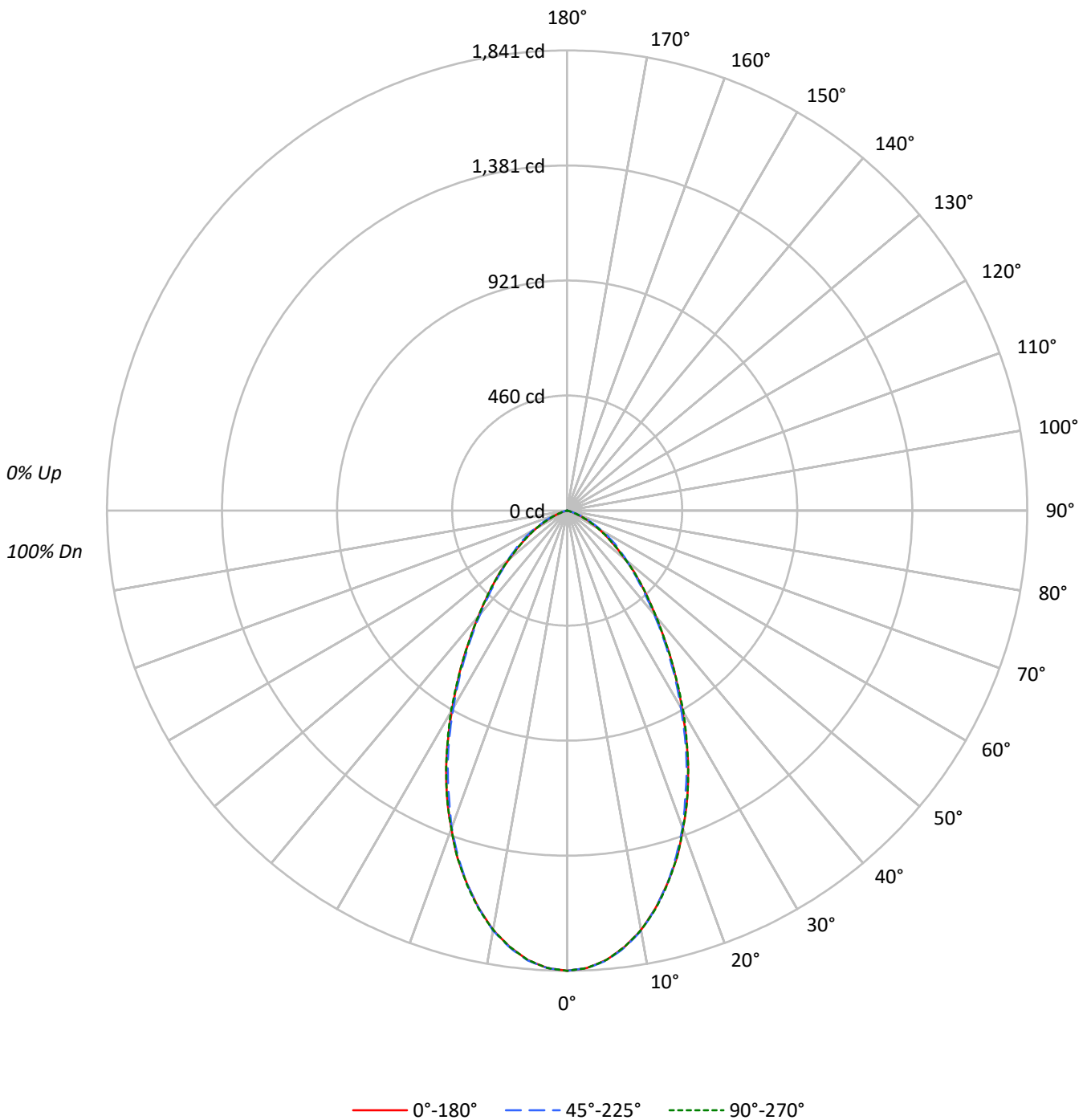
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	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	62	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	52	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	46	41	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	140947	140947	140947
5°	138658	138842	138658
10°	132426	132613	132426
15°	122542	122542	122740
20°	110340	109941	110340
25°	96762	95512	96762
30°	81270	80404	82136
35°	67540	66391	67540
40°	55026	54047	55276
45°	45237	44176	45508
50°	36308	36891	36010
55°	28545	31174	28545
60°	21830	24081	21830
65°	15141	17369	14689
70°	7699	9914	7699
75°	739	2898	739
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	7.7
10°-20°	431.5	19.7
20°-30°	520.3	23.7
30°-40°	449.7	20.5
40°-50°	321.9	14.7
50°-60°	199.1	9.1
60°-70°	90.8	4.1
70°-80°	12.7	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°	1120.9	51.1
0°-40°	1570.6	71.6
0°-60°	2091.7	95.3
0°-90°	2195.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1805	1805	1807	1805	1805	169
15°	1546	1546	1546	1549	1549	432
25°	1146	1138	1131	1141	1146	523
35°	723	715	710	720	723	452
45°	418	413	408	416	420	324
55°	214	219	234	219	214	194
65°	84	91	96	91	81	83
75°	2	5	10	5	2	10
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°	1841.4	1841.4	1841.4	1841.4	1841.4
2.5°	1831.6	1831.6	1831.6	1831.6	1831.6
5°	1804.6	1804.6	1807.0	1804.6	1804.6
7.5°	1760.3	1762.8	1762.8	1762.8	1760.3
10°	1703.8	1703.8	1706.2	1703.8	1703.8
12.5°	1630.0	1630.0	1630.0	1632.5	1632.5
15°	1546.4	1546.4	1546.4	1548.9	1548.9
17.5°	1457.9	1455.4	1450.5	1453.0	1457.9
20°	1354.6	1352.2	1349.7	1352.2	1354.6
22.5°	1253.8	1244.0	1236.6	1248.9	1253.8
25°	1145.7	1138.3	1130.9	1140.8	1145.7
27.5°	1032.6	1027.7	1020.3	1027.7	1035.0
30°	919.5	919.5	909.7	919.5	929.3
32.5°	818.7	816.2	808.9	813.8	821.1
35°	722.8	715.4	710.5	720.3	722.8
37.5°	631.8	629.4	622.0	629.4	631.8
40°	550.7	545.8	540.9	548.3	553.2
42.5°	481.9	477.0	469.6	477.0	481.9
45°	417.9	413.0	408.1	415.5	420.4
47.5°	361.4	358.9	354.0	358.9	361.4
50°	304.9	309.8	309.8	307.3	302.4
52.5°	255.7	258.1	268.0	258.1	255.7
55°	213.9	218.8	233.6	218.8	213.9
57.5°	177.0	181.9	194.2	181.9	177.0
60°	142.6	150.0	157.3	150.0	142.6
62.5°	110.6	120.5	122.9	118.0	110.6
65°	83.6	91.0	95.9	91.0	81.1
67.5°	56.5	66.4	68.8	66.4	56.5
70°	34.4	44.3	44.3	44.3	34.4
72.5°	17.2	22.1	24.6	22.1	17.2
75°	2.5	4.9	9.8	4.9	2.5
77.5°	0.0	0.0	2.5	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)