

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: P252896

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SWDH-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.8 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

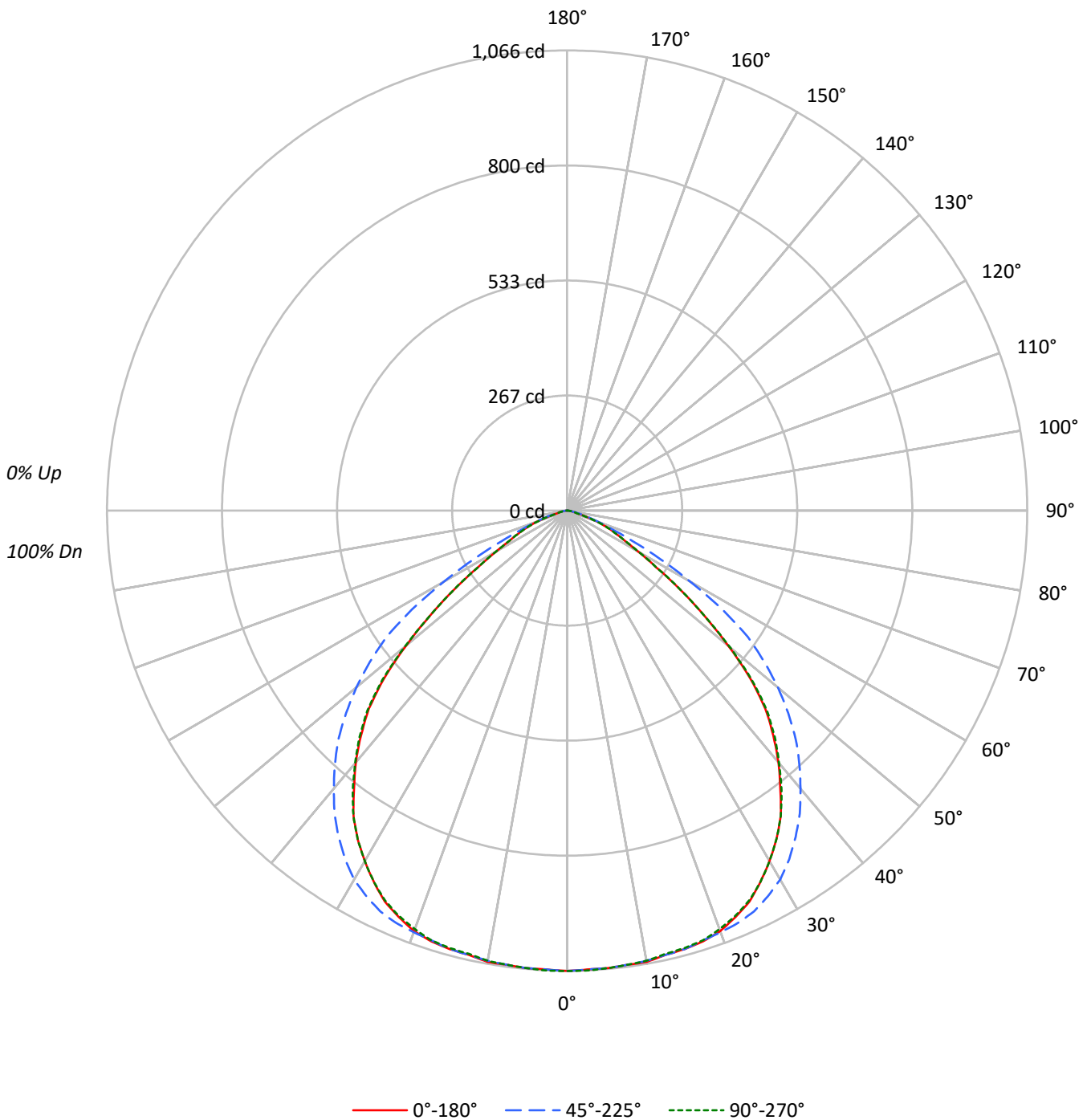
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	81634	81634	81634
5°	81761	81761	81761
10°	82512	82318	82318
15°	83340	83340	83142
20°	84453	84657	84046
25°	84423	86517	84211
30°	82869	87253	82869
35°	80659	86219	80659
40°	76089	84013	76329
45°	70340	81089	70881
50°	58183	75902	58480
55°	42704	68179	43024
60°	28857	50503	29240
65°	22006	30554	22006
70°	16091	17210	15532
75°	6595	9523	6595
80°	5466	5466	5466
85°	4391	4391	4391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	4.1
10°-20°	297.2	11.9
20°-30°	464.2	18.6
30°-40°	555.3	22.2
40°-50°	533.7	21.4
50°-60°	358.5	14.3
60°-70°	146.4	5.9
70°-80°	36.4	1.5
80°-90°	5.7	0.2
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°	862.9	34.5
0°-40°	1418.1	56.8
0°-60°	2310.3	92.5
0°-90°	2498.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1066	1066	1066	1066	1066	
5°	1064	1064	1064	1064	1064	101
15°	1052	1052	1052	1049	1049	297
25°	1000	1010	1024	1007	997	459
35°	863	888	923	890	863	536
45°	650	697	749	700	655	492
55°	320	387	511	389	322	290
65°	122	136	169	136	122	123
75°	22	25	32	25	22	33
85°	5	5	5	5	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1066.5	1066.5	1066.5	1066.5	1066.5
2.5°	1064.1	1064.1	1064.1	1066.5	1066.5
5°	1064.1	1064.1	1064.1	1064.1	1064.1
7.5°	1061.6	1061.6	1061.6	1061.6	1061.6
10°	1061.6	1059.1	1059.1	1059.1	1059.1
12.5°	1054.1	1054.1	1054.1	1054.1	1051.7
15°	1051.7	1051.7	1051.7	1049.2	1049.2
17.5°	1046.7	1046.7	1044.2	1044.2	1044.2
20°	1036.8	1039.3	1039.3	1036.8	1031.8
22.5°	1019.4	1026.9	1034.3	1024.4	1016.9
25°	999.6	1009.5	1024.4	1007.0	997.1
27.5°	969.8	984.7	1007.0	984.7	969.8
30°	937.6	957.4	987.2	957.4	937.6
32.5°	902.8	925.2	957.4	925.2	902.8
35°	863.2	888.0	922.7	890.4	863.2
37.5°	811.1	845.8	885.5	850.8	816.0
40°	761.5	798.7	840.8	801.1	763.9
42.5°	706.9	749.1	796.2	751.5	711.9
45°	649.8	697.0	749.1	699.5	654.8
47.5°	575.4	632.5	694.5	639.9	580.4
50°	488.6	560.6	637.4	565.5	491.1
52.5°	401.8	471.3	575.4	476.2	401.8
55°	320.0	386.9	510.9	389.4	322.4
57.5°	245.6	305.1	426.6	310.0	245.6
60°	188.5	233.2	329.9	235.6	191.0
62.5°	148.8	176.1	243.1	173.6	148.8
65°	121.5	136.4	168.7	136.4	121.5
67.5°	96.7	106.7	111.6	106.7	96.7
70°	71.9	81.9	76.9	81.9	69.4
72.5°	42.2	52.1	52.1	52.1	39.7
75°	22.3	24.8	32.2	24.8	22.3
77.5°	17.4	17.4	19.8	17.4	17.4
80°	12.4	12.4	12.4	12.4	12.4
82.5°	7.4	7.4	7.4	7.4	7.4
85°	5.0	5.0	5.0	5.0	5.0
87.5°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)