

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: P252871

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252871
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-S4M24-44SWDC-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2387.1 lumens
Efficiency: N/A
Efficacy: 95.5 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

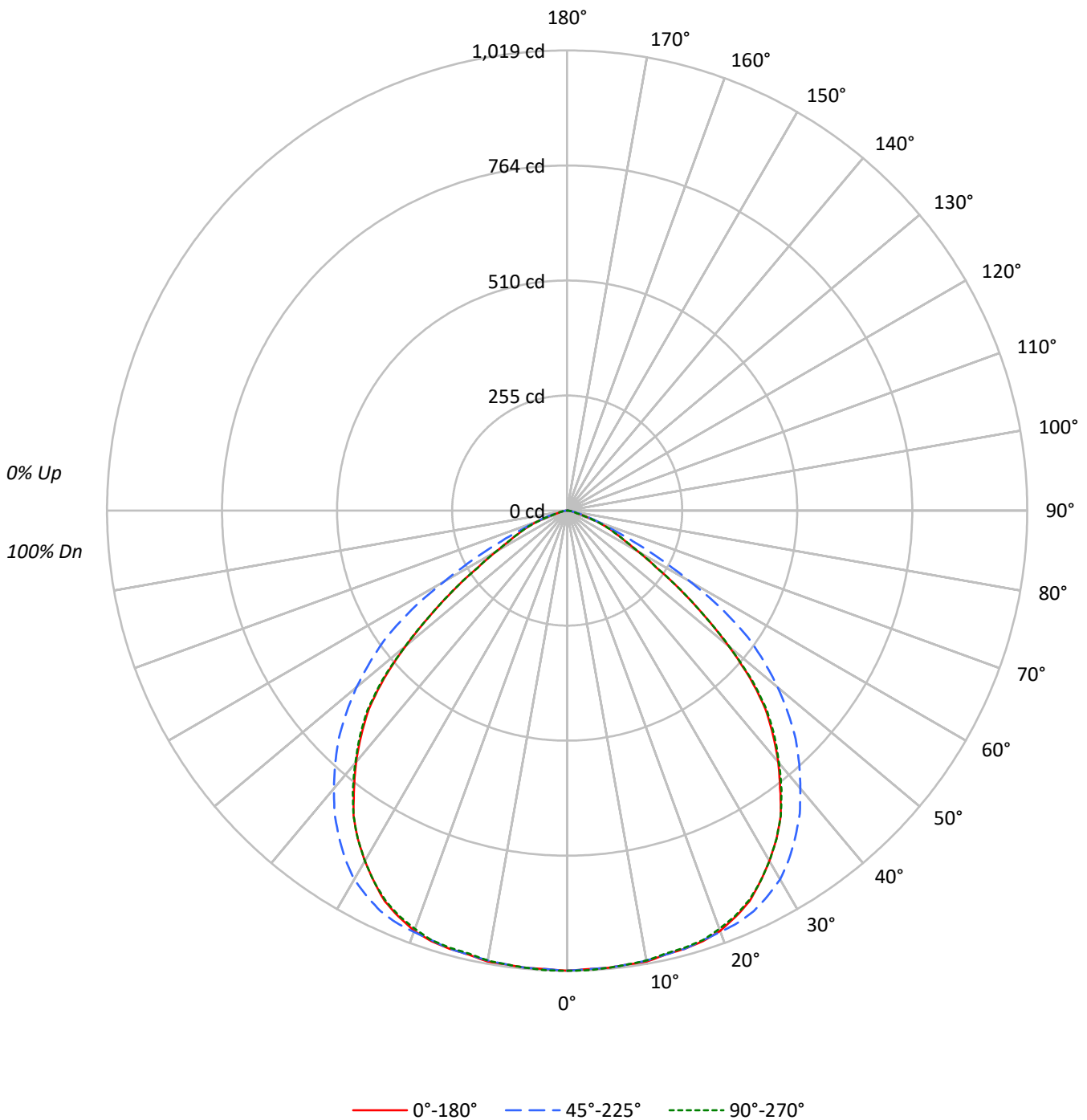
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	77990	77990	77990
5°	78104	78104	78104
10°	78820	78641	78641
15°	79616	79616	79426
20°	80674	80869	80291
25°	80647	82649	80445
30°	79166	83356	79166
35°	77052	82360	77052
40°	72682	80266	72922
45°	67201	77463	67710
50°	55587	72520	55873
55°	40795	65137	41102
60°	27571	48238	27938
65°	21028	29178	21028
70°	15375	16449	14838
75°	6299	9109	6299
80°	5201	5201	5201
85°	4128	4128	4128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	4.1
10°-20°	283.9	11.9
20°-30°	443.5	18.6
30°-40°	530.4	22.2
40°-50°	509.8	21.4
50°-60°	342.4	14.3
60°-70°	139.8	5.9
70°-80°	34.7	1.5
80°-90°	5.5	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°	824.3	34.5
0°-40°	1354.7	56.8
0°-60°	2207.0	92.5
0°-90°	2387.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1016	1016	1016	1016	97
15°	1005	1005	1005	1002	1002	284
25°	955	964	979	962	952	438
35°	825	848	881	851	825	512
45°	621	666	716	668	626	470
55°	306	370	488	372	308	277
65°	116	130	161	130	116	117
75°	21	24	31	24	21	31
85°	5	5	5	5	5	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1018.9	1018.9	1018.9	1018.9	1018.9
2.5°	1016.5	1016.5	1016.5	1018.9	1018.9
5°	1016.5	1016.5	1016.5	1016.5	1016.5
7.5°	1014.1	1014.1	1014.1	1014.1	1014.1
10°	1014.1	1011.8	1011.8	1011.8	1011.8
12.5°	1007.0	1007.0	1007.0	1007.0	1004.7
15°	1004.7	1004.7	1004.7	1002.3	1002.3
17.5°	999.9	999.9	997.6	997.6	997.6
20°	990.4	992.8	992.8	990.4	985.7
22.5°	973.9	981.0	988.1	978.6	971.5
25°	954.9	964.4	978.6	962.0	952.5
27.5°	926.5	940.7	962.0	940.7	926.5
30°	895.7	914.6	943.1	914.6	895.7
32.5°	862.5	883.8	914.6	883.8	862.5
35°	824.6	848.3	881.4	850.6	824.6
37.5°	774.8	808.0	845.9	812.7	779.6
40°	727.4	763.0	803.3	765.3	729.8
42.5°	675.3	715.6	760.6	718.0	680.0
45°	620.8	665.8	715.6	668.2	625.5
47.5°	549.7	604.2	663.5	611.3	554.5
50°	466.8	535.5	609.0	540.2	469.2
52.5°	383.9	450.2	549.7	454.9	383.9
55°	305.7	369.6	488.1	372.0	308.0
57.5°	234.6	291.4	407.6	296.2	234.6
60°	180.1	222.7	315.1	225.1	182.5
62.5°	142.2	168.2	232.2	165.9	142.2
65°	116.1	130.3	161.1	130.3	116.1
67.5°	92.4	101.9	106.6	101.9	92.4
70°	68.7	78.2	73.5	78.2	66.3
72.5°	40.3	49.8	49.8	49.8	37.9
75°	21.3	23.7	30.8	23.7	21.3
77.5°	16.6	16.6	19.0	16.6	16.6
80°	11.8	11.8	11.8	11.8	11.8
82.5°	7.1	7.1	7.1	7.1	7.1
85°	4.7	4.7	4.7	4.7	4.7
87.5°	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)