

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: P252921

Luminaire Tested: **PRS430D010-S4M24-44SWDMB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252921
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-S4M24-44SWDMB
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

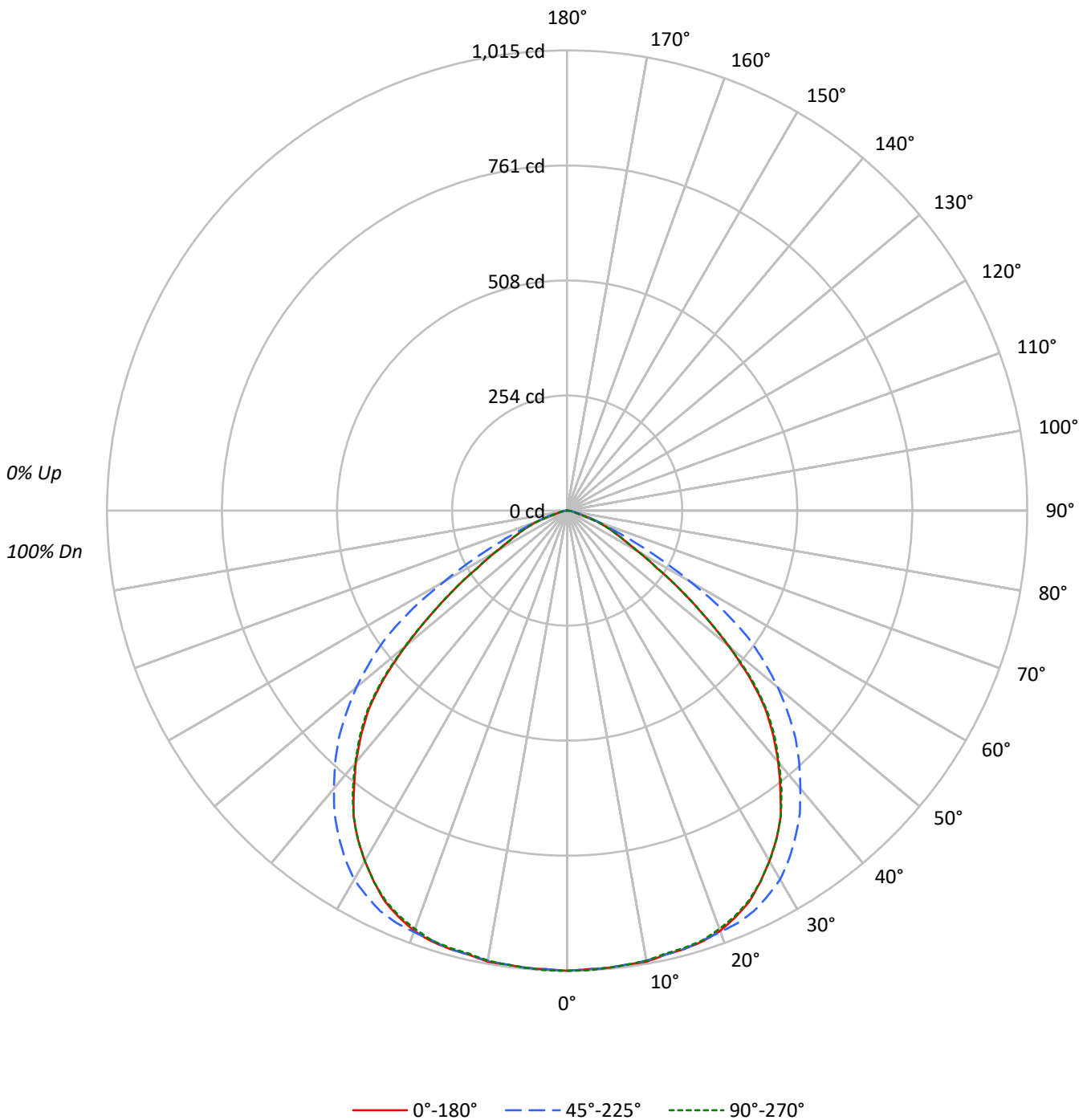
Lumens per Lamp: N/A
Luminaire Lumens: 2378.1 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	77692	77692	77692
5°	77812	77812	77812
10°	78525	78346	78346
15°	79315	79315	79125
20°	80372	80568	79990
25°	80343	82336	80141
30°	78866	83037	78866
35°	76763	82052	76763
40°	72412	79956	72642
45°	66952	77171	67461
50°	55372	72246	55658
55°	40635	64896	40956
60°	27464	48069	27831
65°	20955	29069	20955
70°	15330	16382	14793
75°	6270	9079	6270
80°	5201	5201	5201
85°	4128	4128	4128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	4.1
10°-20°	282.9	11.9
20°-30°	441.8	18.6
30°-40°	528.5	22.2
40°-50°	507.9	21.4
50°-60°	341.2	14.3
60°-70°	139.3	5.9
70°-80°	34.6	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°	821.2	34.5
0°-40°	1349.6	56.8
0°-60°	2198.7	92.5
0°-90°	2378.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1013	1013	1013	1013	1013	97
15°	1001	1001	1001	998	998	283
25°	951	961	975	958	949	437
35°	822	845	878	847	822	510
45°	618	663	713	666	623	469
55°	304	368	486	371	307	276
65°	116	130	160	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°	1015.0	1015.0	1015.0	1015.0	1015.0
2.5°	1012.7	1012.7	1012.7	1015.0	1015.0
5°	1012.7	1012.7	1012.7	1012.7	1012.7
7.5°	1010.3	1010.3	1010.3	1010.3	1010.3
10°	1010.3	1008.0	1008.0	1008.0	1008.0
12.5°	1003.2	1003.2	1003.2	1003.2	1000.9
15°	1000.9	1000.9	1000.9	998.5	998.5
17.5°	996.1	996.1	993.8	993.8	993.8
20°	986.7	989.1	989.1	986.7	982.0
22.5°	970.2	977.3	984.3	974.9	967.8
25°	951.3	960.7	974.9	958.4	948.9
27.5°	923.0	937.1	958.4	937.1	923.0
30°	892.3	911.2	939.5	911.2	892.3
32.5°	859.2	880.5	911.2	880.5	859.2
35°	821.5	845.1	878.1	847.4	821.5
37.5°	771.9	804.9	842.7	809.7	776.6
40°	724.7	760.1	800.2	762.5	727.0
42.5°	672.8	712.9	757.7	715.2	677.5
45°	618.5	663.3	712.9	665.7	623.2
47.5°	547.6	601.9	661.0	609.0	552.4
50°	465.0	533.5	606.7	538.2	467.4
52.5°	382.4	448.5	547.6	453.2	382.4
55°	304.5	368.2	486.3	370.6	306.9
57.5°	233.7	290.3	406.0	295.1	233.7
60°	179.4	221.9	314.0	224.3	181.8
62.5°	141.6	167.6	231.3	165.2	141.6
65°	115.7	129.8	160.5	129.8	115.7
67.5°	92.1	101.5	106.2	101.5	92.1
70°	68.5	77.9	73.2	77.9	66.1
72.5°	40.1	49.6	49.6	49.6	37.8
75°	21.2	23.6	30.7	23.6	21.2
77.5°	16.5	16.5	18.9	16.5	16.5
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)