

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: P241701

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-41)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SMDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.08
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

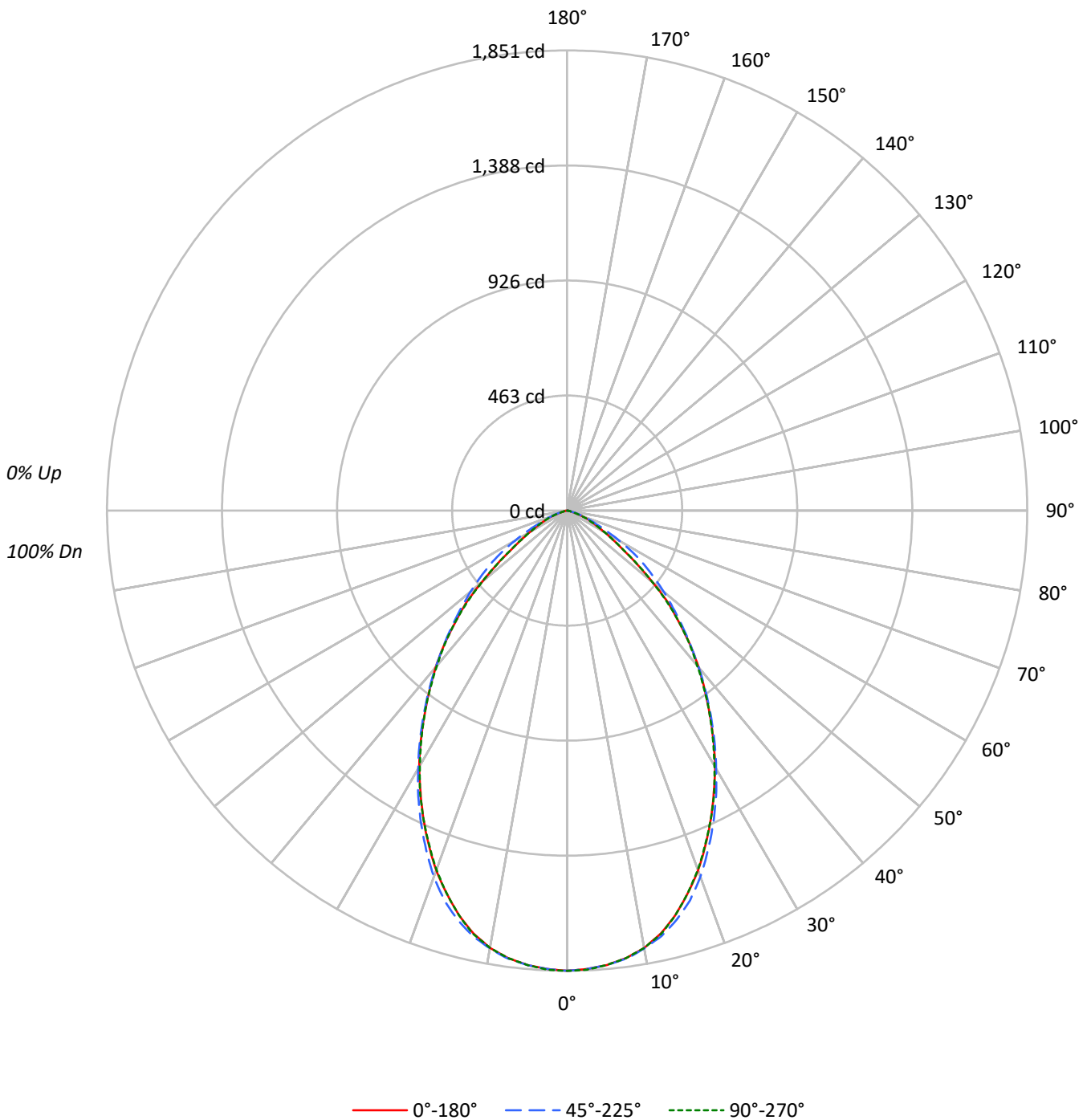
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92				90	
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82				80	
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73				71	
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65				63	
5	84	74	66	61	82	73	66	60	71	65	60	69	64	59	67	62	59				57	
6	79	68	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53				51	
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48				47	
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44				43	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41				39	
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38				36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	141697	141697	141697
5°	140978	140978	140978
10°	138792	139002	138792
15°	133494	135007	133494
20°	125434	127657	125214
25°	115528	117377	115528
30°	105213	105938	104736
35°	93377	94143	93377
40°	82115	82115	81295
45°	68868	70643	69160
50°	53324	60148	53324
55°	36805	50284	37166
60°	26331	37200	26331
65°	19778	23744	19289
70°	12824	15285	13450
75°	4850	8074	4850
80°	3615	4805	3615
85°	2371	2371	2371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	6.1
10°-20°	474.3	16.6
20°-30°	633.5	22.1
30°-40°	629.2	22.0
40°-50°	500.4	17.5
50°-60°	292.3	10.2
60°-70°	123.2	4.3
70°-80°	30.3	1.1
80°-90°	4.4	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°	1281.5	44.8
0°-40°	1910.7	66.8
0°-60°	2703.4	94.5
0°-90°	2861.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1835	1835	1835	1835	1835	174
15°	1685	1696	1704	1696	1685	471
25°	1368	1387	1390	1384	1368	628
35°	999	1016	1008	1010	999	625
45°	636	653	653	653	639	491
55°	276	314	377	314	278	258
65°	109	120	131	120	106	110
75°	16	19	27	22	16	26
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1851.2	1851.2	1851.2	1851.2	1851.2
2.5°	1845.7	1845.7	1845.7	1845.7	1848.5
5°	1834.8	1834.8	1834.8	1834.8	1834.8
7.5°	1815.7	1815.7	1818.4	1818.4	1815.7
10°	1785.7	1785.7	1788.4	1788.4	1785.7
12.5°	1742.0	1747.4	1752.9	1747.4	1744.7
15°	1684.6	1695.6	1703.7	1695.6	1684.6
17.5°	1613.6	1627.3	1643.7	1627.3	1613.6
20°	1539.9	1553.6	1567.2	1550.8	1537.2
22.5°	1455.3	1471.7	1479.9	1468.9	1452.6
25°	1367.9	1387.0	1389.8	1384.3	1367.9
27.5°	1277.8	1291.5	1296.9	1294.2	1280.5
30°	1190.4	1204.1	1198.6	1201.4	1185.0
32.5°	1094.9	1108.5	1103.1	1103.1	1092.1
35°	999.3	1015.7	1007.5	1010.2	999.3
37.5°	909.2	917.4	914.7	917.4	906.5
40°	821.8	827.3	821.8	827.3	813.6
42.5°	731.7	739.9	734.5	739.9	729.0
45°	636.2	652.6	652.6	652.6	638.9
47.5°	554.3	567.9	576.1	567.9	546.1
50°	447.8	488.7	505.1	486.0	447.8
52.5°	354.9	395.9	439.6	395.9	357.7
55°	275.8	314.0	376.8	314.0	278.5
57.5°	218.4	245.7	311.3	245.7	218.4
60°	172.0	193.9	243.0	193.9	172.0
62.5°	136.5	152.9	180.2	152.9	136.5
65°	109.2	120.1	131.1	120.1	106.5
67.5°	84.6	92.8	95.6	92.8	81.9
70°	57.3	68.3	68.3	68.3	60.1
72.5°	35.5	43.7	46.4	43.7	35.5
75°	16.4	19.1	27.3	21.8	16.4
77.5°	13.7	13.7	13.7	13.7	13.7
80°	8.2	10.9	10.9	10.9	8.2
82.5°	5.5	5.5	5.5	5.5	5.5
85°	2.7	2.7	2.7	2.7	2.7
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)