

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: P252986

Luminaire Tested: **PRS430D010-S4M24-41SWDMB-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SWDMB-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1457.4 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.1 / 1.15
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

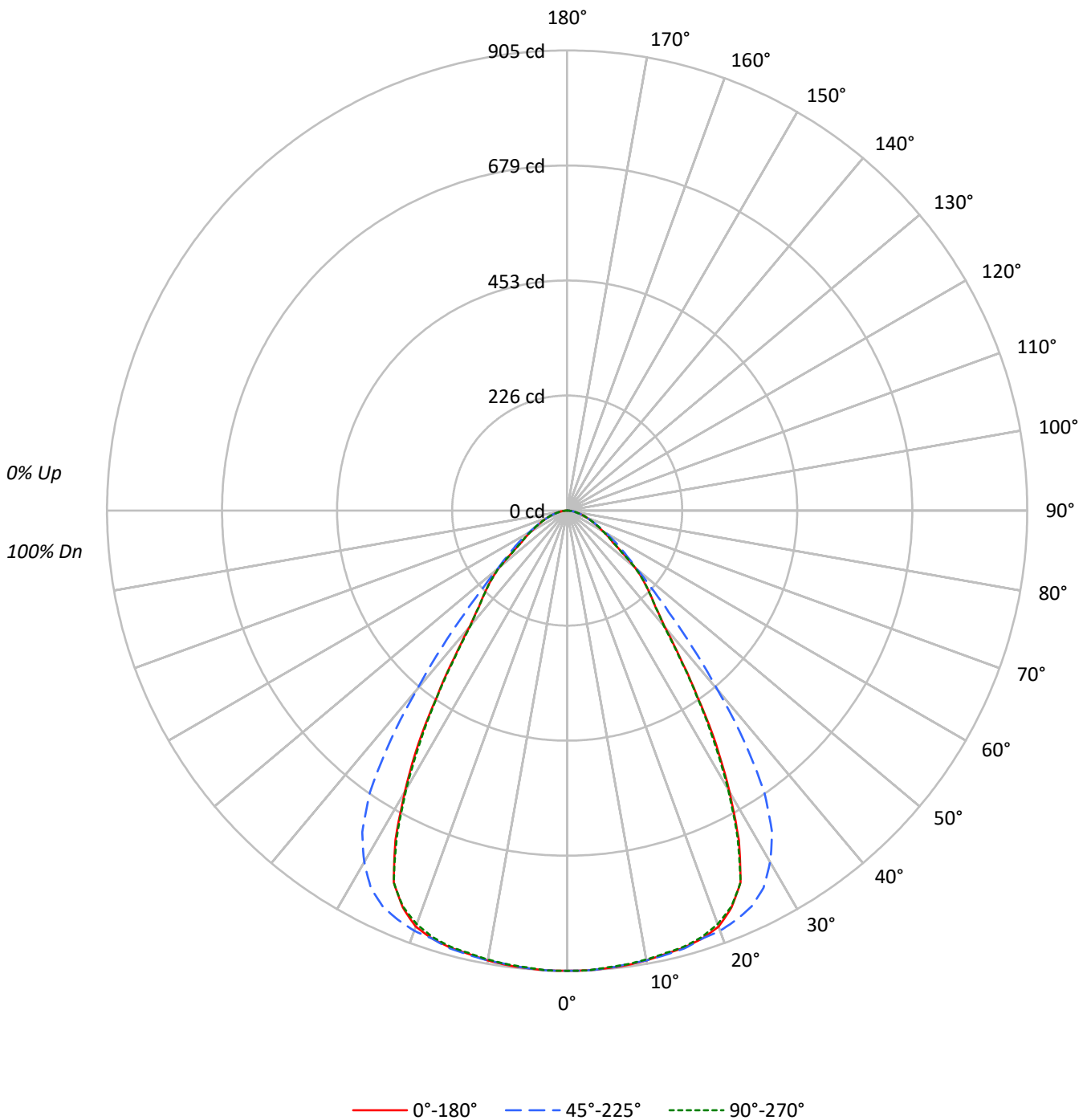
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90					90			
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41					41			
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	69287	69287	69287
5°	69421	69421	69291
10°	69827	69827	69688
15°	70503	70646	70368
20°	70932	71632	70508
25°	68156	72523	68156
30°	56389	70558	55930
35°	41731	63158	41404
40°	29806	46003	29466
45°	24821	30613	24821
50°	20744	21351	20744
55°	14733	17028	14960
60°	12400	13456	12400
65°	10613	10921	10613
70°	9265	9265	9265
75°	8162	8162	8162
80°	6832	6832	6832
85°	6060	6060	6060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	5.9
10°-20°	251.4	17.2
20°-30°	375.7	25.8
30°-40°	334.4	22.9
40°-50°	199.0	13.7
50°-60°	112.7	7.7
60°-70°	60.4	4.1
70°-80°	29.6	2.0
80°-90°	8.2	0.6
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°	713.1	48.9
0°-40°	1047.5	71.9
0°-60°	1359.1	93.3
0°-90°	1457.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	904	904	904	904	902	86
15°	890	890	892	888	888	251
25°	807	829	859	828	807	360
35°	447	522	676	521	443	282
45°	229	247	283	245	229	178
55°	110	122	128	122	112	105
65°	59	60	60	60	59	59
75°	28	28	28	28	28	30
85°	7	7	7	7	7	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.2	905.2	905.2	905.2	905.2
2.5°	905.2	905.2	905.2	905.2	905.2
5°	903.5	903.5	903.5	903.5	901.8
7.5°	901.8	900.1	900.1	900.1	900.1
10°	898.4	898.4	898.4	896.6	896.6
12.5°	893.2	893.2	894.9	893.2	891.5
15°	889.7	889.7	891.5	888.0	888.0
17.5°	882.8	884.6	882.8	882.8	879.4
20°	870.8	875.9	879.4	874.2	865.6
22.5°	844.9	858.7	870.8	857.0	843.2
25°	807.0	829.4	858.7	827.7	807.0
27.5°	731.1	788.0	836.3	782.8	725.9
30°	638.0	707.0	798.3	701.8	632.8
32.5°	544.9	613.8	750.1	610.4	536.3
35°	446.6	522.5	675.9	520.7	443.1
37.5°	363.8	432.8	572.5	429.3	360.4
40°	298.3	351.8	460.4	350.0	294.9
42.5°	256.9	286.2	363.8	284.5	256.9
45°	229.3	246.6	282.8	244.8	229.3
47.5°	203.5	217.3	222.4	215.5	203.5
50°	174.2	189.7	179.3	189.7	174.2
52.5°	137.9	156.9	150.0	158.6	136.2
55°	110.4	122.4	127.6	122.4	112.1
57.5°	96.6	100.0	106.9	100.0	96.6
60°	81.0	84.5	87.9	84.5	81.0
62.5°	69.0	72.4	72.4	72.4	70.7
65°	58.6	60.3	60.3	60.3	58.6
67.5°	50.0	50.0	50.0	50.0	50.0
70°	41.4	41.4	41.4	41.4	41.4
72.5°	34.5	34.5	34.5	34.5	34.5
75°	27.6	27.6	27.6	27.6	27.6
77.5°	22.4	22.4	20.7	22.4	20.7
80°	15.5	15.5	15.5	15.5	15.5
82.5°	12.1	12.1	12.1	12.1	12.1
85°	6.9	6.9	6.9	6.9	6.9
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)