

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: P252981

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252981
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
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP 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: 1532.3 lumens
Efficiency: N/A
Efficacy: 61.3 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

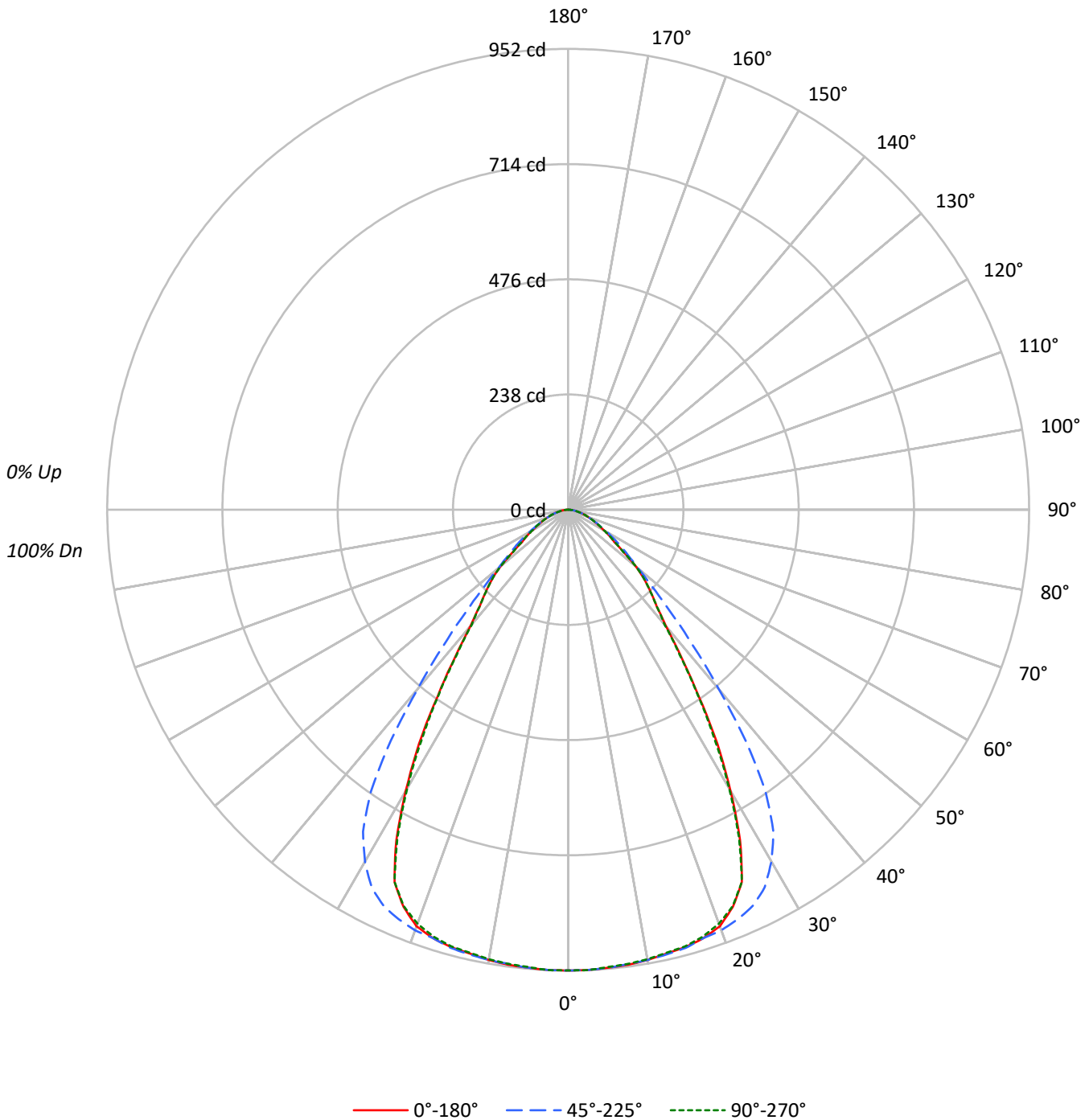
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	72854	72854	72854
5°	72994	72994	72856
10°	73418	73418	73271
15°	74132	74275	73990
20°	74581	75314	74133
25°	71661	76256	71661
30°	59288	74190	58811
35°	43880	66409	43535
40°	31335	48371	30975
45°	26099	32182	26099
50°	21804	22447	21804
55°	15480	17909	15720
60°	13043	14161	13043
65°	11157	11501	11157
70°	9735	9735	9735
75°	8576	8576	8576
80°	7185	7185	7185
85°	6411	6411	6411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	5.9
10°-20°	264.3	17.2
20°-30°	395.0	25.8
30°-40°	351.6	22.9
40°-50°	209.2	13.7
50°-60°	118.5	7.7
60°-70°	63.5	4.1
70°-80°	31.1	2.0
80°-90°	8.6	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°	749.7	48.9
0°-40°	1101.3	71.9
0°-60°	1429.0	93.3
0°-90°	1532.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	950	950	950	950	948	91
15°	936	936	937	934	934	264
25°	848	872	903	870	848	378
35°	470	549	711	548	466	297
45°	241	259	297	257	241	187
55°	116	129	134	129	118	111
65°	62	64	64	64	62	62
75°	29	29	29	29	29	31
85°	7	7	7	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	951.8	951.8	951.8	951.8	951.8
2.5°	951.8	951.8	951.8	951.8	951.8
5°	950.0	950.0	950.0	950.0	948.2
7.5°	948.2	946.4	946.4	946.4	946.4
10°	944.6	944.6	944.6	942.7	942.7
12.5°	939.1	939.1	940.9	939.1	937.3
15°	935.5	935.5	937.3	933.7	933.7
17.5°	928.2	930.1	928.2	928.2	924.6
20°	915.6	921.0	924.6	919.2	910.1
22.5°	888.4	902.9	915.6	901.0	886.5
25°	848.5	872.0	902.9	870.2	848.5
27.5°	768.7	828.5	879.3	823.1	763.3
30°	670.8	743.3	839.4	737.9	665.4
32.5°	572.9	645.4	788.6	641.8	563.8
35°	469.6	549.3	710.7	547.5	465.9
37.5°	382.5	455.1	601.9	451.4	378.9
40°	313.6	369.8	484.1	368.0	310.0
42.5°	270.1	301.0	382.5	299.1	270.1
45°	241.1	259.3	297.3	257.4	241.1
47.5°	213.9	228.4	233.9	226.6	213.9
50°	183.1	199.4	188.5	199.4	183.1
52.5°	145.0	165.0	157.7	166.8	143.2
55°	116.0	128.7	134.2	128.7	117.8
57.5°	101.5	105.2	112.4	105.2	101.5
60°	85.2	88.8	92.5	88.8	85.2
62.5°	72.5	76.1	76.1	76.1	74.3
65°	61.6	63.5	63.5	63.5	61.6
67.5°	52.6	52.6	52.6	52.6	52.6
70°	43.5	43.5	43.5	43.5	43.5
72.5°	36.3	36.3	36.3	36.3	36.3
75°	29.0	29.0	29.0	29.0	29.0
77.5°	23.6	23.6	21.8	23.6	21.8
80°	16.3	16.3	16.3	16.3	16.3
82.5°	12.7	12.7	12.7	12.7	12.7
85°	7.3	7.3	7.3	7.3	7.3
87.5°	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)