

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: P252961

Luminaire Tested: **PRS430D010-S4M24-41SWDMW-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252961
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-S4M24-41SWDMW-3000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2100.6 lumens
Efficiency: N/A
Efficacy: 84.0 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

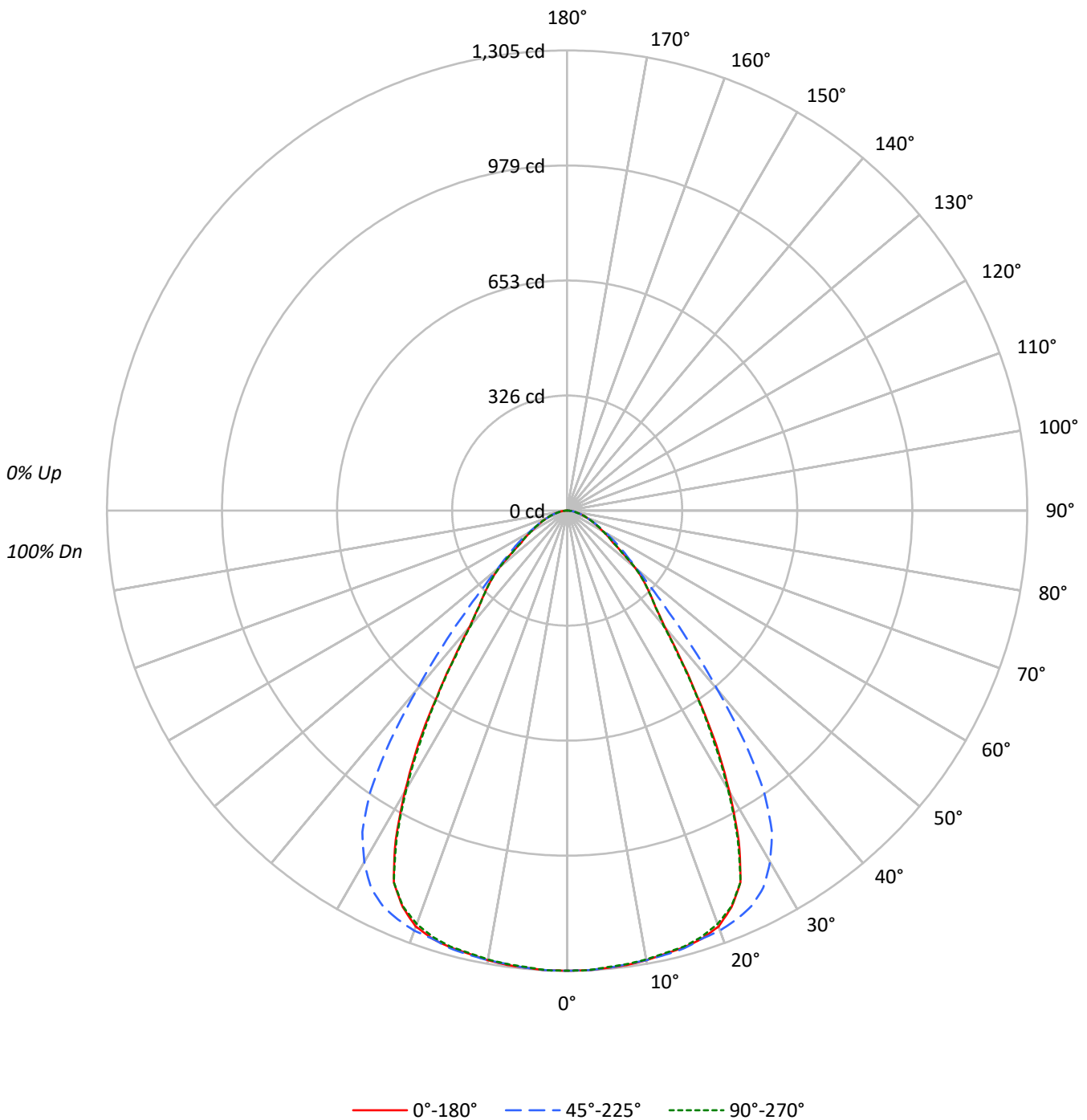
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	99874	99874	99874
5°	100063	100063	99871
10°	100637	100637	100451
15°	101622	101820	101424
20°	102235	103245	101624
25°	98231	104532	98231
30°	81279	101704	80616
35°	60149	91031	59682
40°	42966	66307	42466
45°	35776	44122	35776
50°	29889	30782	29889
55°	21232	24541	21552
60°	17881	19411	17881
65°	15304	15757	15304
70°	13338	13338	13338
75°	11770	11770	11770
80°	9874	9874	9874
85°	8695	8695	8695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	5.9
10°-20°	362.3	17.2
20°-30°	541.5	25.8
30°-40°	482.0	22.9
40°-50°	286.8	13.7
50°-60°	162.4	7.7
60°-70°	87.1	4.1
70°-80°	42.7	2.0
80°-90°	11.8	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°	1027.8	48.9
0°-40°	1509.7	71.9
0°-60°	1959.0	93.3
0°-90°	2100.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1302	1302	1302	1302	1300	124
15°	1282	1282	1285	1280	1280	362
25°	1163	1195	1238	1193	1163	519
35°	644	753	974	751	639	407
45°	330	355	408	353	330	257
55°	159	176	184	176	162	152
65°	84	87	87	87	84	85
75°	40	40	40	40	40	43
85°	10	10	10	10	10	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.8	1304.8	1304.8	1304.8	1304.8
2.5°	1304.8	1304.8	1304.8	1304.8	1304.8
5°	1302.3	1302.3	1302.3	1302.3	1299.8
7.5°	1299.8	1297.3	1297.3	1297.3	1297.3
10°	1294.8	1294.8	1294.8	1292.4	1292.4
12.5°	1287.4	1287.4	1289.9	1287.4	1284.9
15°	1282.4	1282.4	1284.9	1279.9	1279.9
17.5°	1272.5	1275.0	1272.5	1272.5	1267.5
20°	1255.1	1262.5	1267.5	1260.0	1247.6
22.5°	1217.8	1237.7	1255.1	1235.2	1215.3
25°	1163.1	1195.4	1237.7	1192.9	1163.1
27.5°	1053.8	1135.8	1205.4	1128.3	1046.3
30°	919.6	1019.0	1150.7	1011.5	912.1
32.5°	785.4	884.8	1081.1	879.8	772.9
35°	643.7	753.0	974.2	750.6	638.7
37.5°	524.4	623.8	825.1	618.8	519.4
40°	430.0	507.0	663.6	504.5	425.0
42.5°	370.3	412.6	524.4	410.1	370.3
45°	330.5	355.4	407.6	352.9	330.5
47.5°	293.3	313.1	320.6	310.7	293.3
50°	251.0	273.4	258.5	273.4	251.0
52.5°	198.8	226.2	216.2	228.6	196.3
55°	159.1	176.5	183.9	176.5	161.5
57.5°	139.2	144.1	154.1	144.1	139.2
60°	116.8	121.8	126.8	121.8	116.8
62.5°	99.4	104.4	104.4	104.4	101.9
65°	84.5	87.0	87.0	87.0	84.5
67.5°	72.1	72.1	72.1	72.1	72.1
70°	59.6	59.6	59.6	59.6	59.6
72.5°	49.7	49.7	49.7	49.7	49.7
75°	39.8	39.8	39.8	39.8	39.8
77.5°	32.3	32.3	29.8	32.3	29.8
80°	22.4	22.4	22.4	22.4	22.4
82.5°	17.4	17.4	17.4	17.4	17.4
85°	9.9	9.9	9.9	9.9	9.9
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)