

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: P252951

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252951
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-S4M24-41SWDH
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2266.7 lumens
Efficiency: N/A
Efficacy: 90.7 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

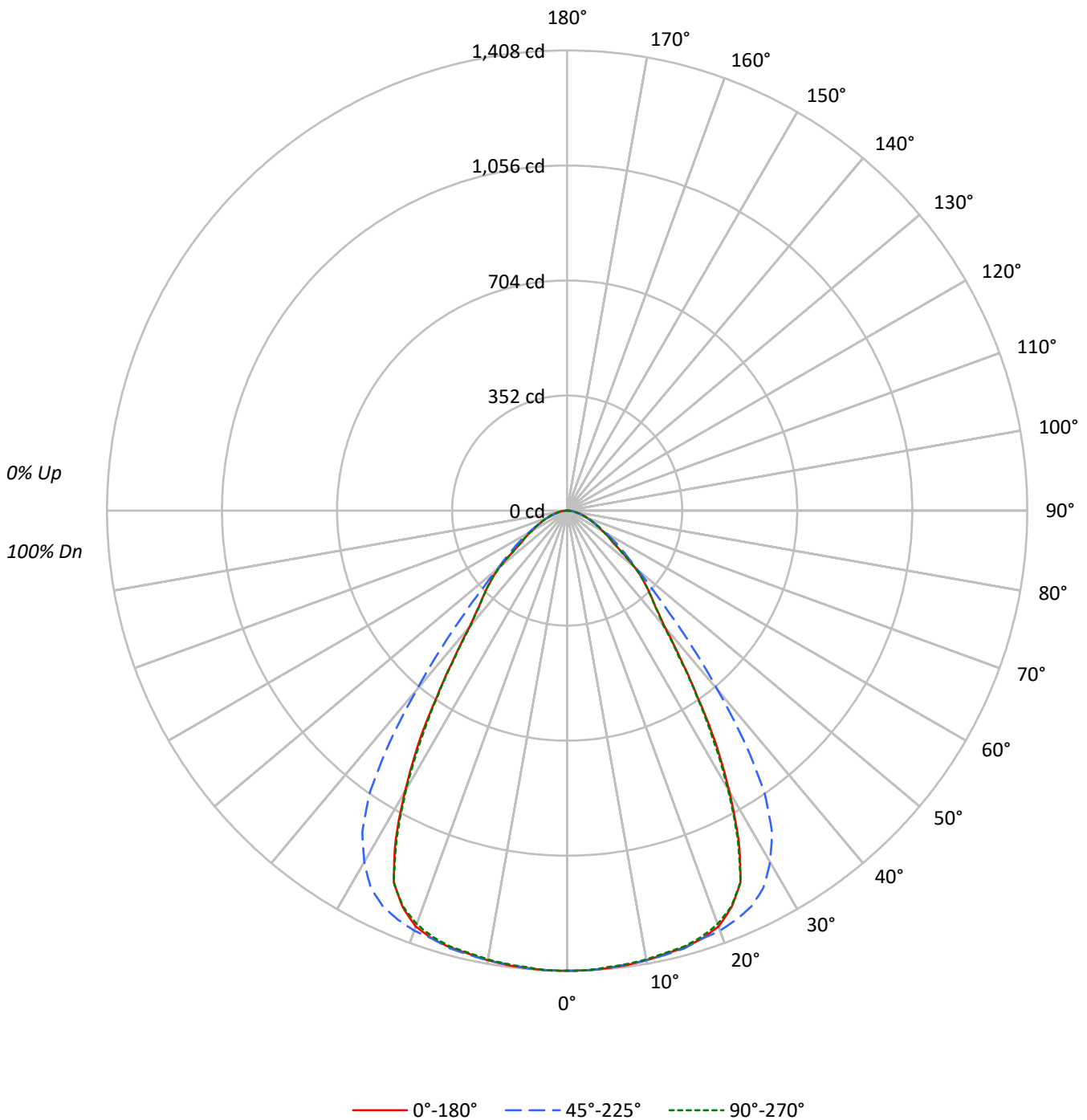
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	107773	107773	107773
5°	107977	107977	107770
10°	108596	108596	108386
15°	109657	109871	109443
20°	110316	111407	109664
25°	106001	112791	106001
30°	87704	109747	86988
35°	64905	98236	64400
40°	46363	71543	45823
45°	38612	47608	38612
50°	32259	33212	32259
55°	22900	26490	23260
60°	19289	20942	19289
65°	16518	17007	16518
70°	14413	14413	14413
75°	12687	12687	12687
80°	10623	10623	10623
85°	9397	9397	9397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	5.9
10°-20°	391.0	17.2
20°-30°	584.3	25.8
30°-40°	520.1	22.9
40°-50°	309.5	13.7
50°-60°	175.3	7.7
60°-70°	94.0	4.1
70°-80°	46.0	2.0
80°-90°	12.8	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°	1109.0	48.9
0°-40°	1629.1	71.9
0°-60°	2113.9	93.3
0°-90°	2266.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1405	1405	1405	1405	1403	134
15°	1384	1384	1386	1381	1381	391
25°	1255	1290	1336	1287	1255	560
35°	695	813	1051	810	689	439
45°	357	384	440	381	357	277
55°	172	190	198	190	174	164
65°	91	94	94	94	91	92
75°	43	43	43	43	43	46
85°	11	11	11	11	11	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.0	1408.0	1408.0	1408.0	1408.0
2.5°	1408.0	1408.0	1408.0	1408.0	1408.0
5°	1405.3	1405.3	1405.3	1405.3	1402.6
7.5°	1402.6	1399.9	1399.9	1399.9	1399.9
10°	1397.2	1397.2	1397.2	1394.5	1394.5
12.5°	1389.2	1389.2	1391.9	1389.2	1386.5
15°	1383.8	1383.8	1386.5	1381.1	1381.1
17.5°	1373.1	1375.8	1373.1	1373.1	1367.7
20°	1354.3	1362.4	1367.7	1359.7	1346.3
22.5°	1314.1	1335.5	1354.3	1332.9	1311.4
25°	1255.1	1290.0	1335.5	1287.3	1255.1
27.5°	1137.1	1225.6	1300.7	1217.5	1129.0
30°	992.3	1099.5	1241.7	1091.5	984.2
32.5°	847.5	954.7	1166.6	949.4	834.0
35°	694.6	812.6	1051.3	809.9	689.2
37.5°	565.9	673.1	890.4	667.8	560.5
40°	464.0	547.1	716.0	544.4	458.6
42.5°	399.6	445.2	565.9	442.5	399.6
45°	356.7	383.5	439.8	380.8	356.7
47.5°	316.5	337.9	346.0	335.2	316.5
50°	270.9	295.0	278.9	295.0	270.9
52.5°	214.5	244.0	233.3	246.7	211.9
55°	171.6	190.4	198.5	190.4	174.3
57.5°	150.2	155.5	166.3	155.5	150.2
60°	126.0	131.4	136.8	131.4	126.0
62.5°	107.3	112.6	112.6	112.6	110.0
65°	91.2	93.9	93.9	93.9	91.2
67.5°	77.8	77.8	77.8	77.8	77.8
70°	64.4	64.4	64.4	64.4	64.4
72.5°	53.6	53.6	53.6	53.6	53.6
75°	42.9	42.9	42.9	42.9	42.9
77.5°	34.9	34.9	32.2	34.9	32.2
80°	24.1	24.1	24.1	24.1	24.1
82.5°	18.8	18.8	18.8	18.8	18.8
85°	10.7	10.7	10.7	10.7	10.7
87.5°	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)