

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: P252906

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-44SWDMW
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE 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: 2749.2 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.41
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

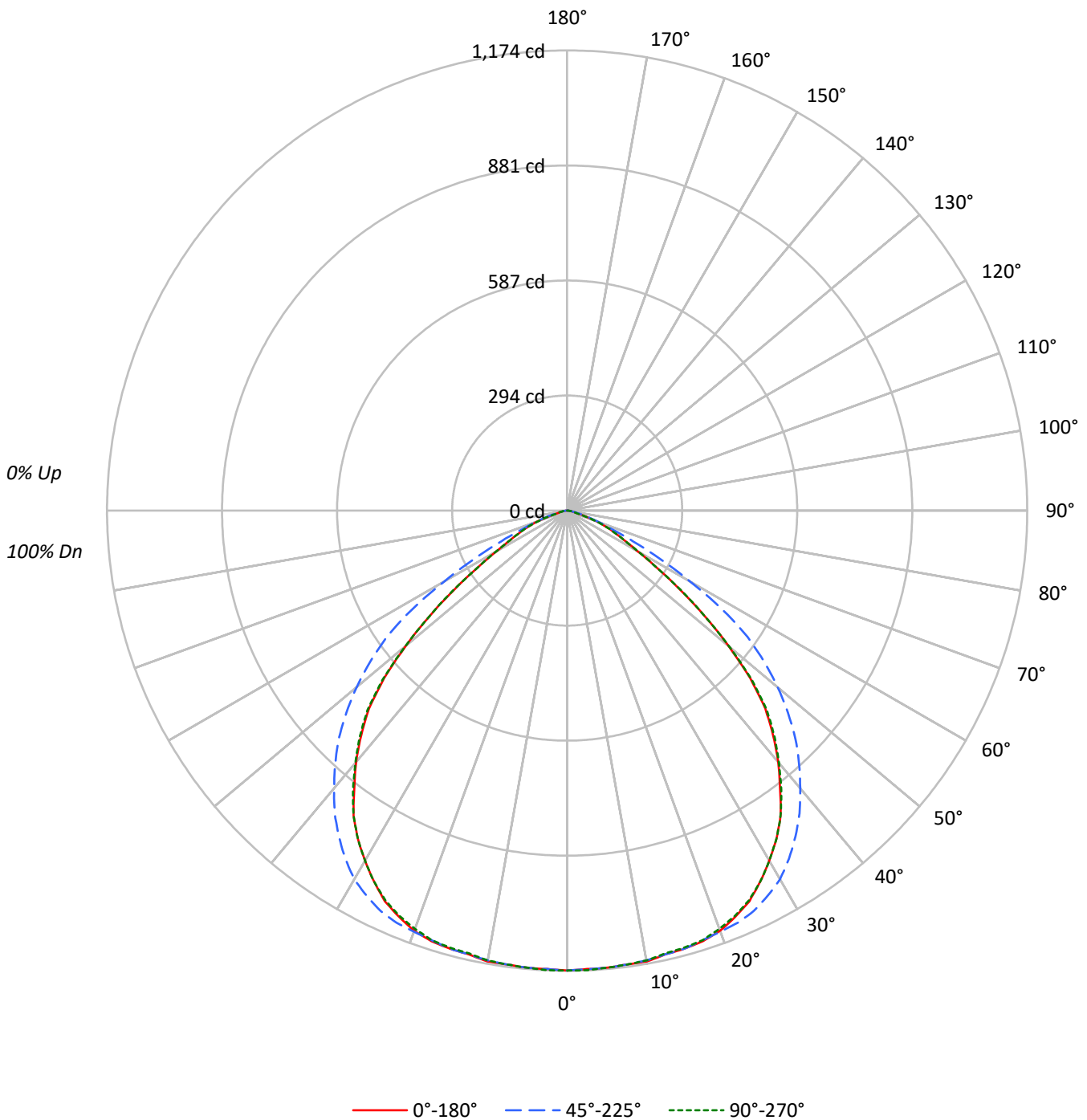
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252906

CATALOG NUMBER: PRS430D010-S4M24-44SWDMW

Luminous Intensity Polar Plot





TEST NUMBER: P252906

CATALOG NUMBER: PRS430D010-S4M24-44SWDMW

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88					88			
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	85	82	79	77					77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67					67			
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	61	59					59			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52					52			
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46					46			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41					41			
8	65	52	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37					37			
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33					33			
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	89824	89824	89824
5°	89952	89952	89952
10°	90782	90572	90572
15°	91693	91693	91479
20°	92917	93137	92477
25°	92885	95191	92649
30°	91178	95995	91178
35°	88742	94863	88742
40°	83713	92436	83983
45°	77398	89208	77982
50°	64018	83511	64339
55°	46974	75025	47348
60°	31750	55571	32164
65°	24215	33615	24215
70°	17702	18933	17098
75°	7275	10499	7275
80°	5995	5995	5995
85°	4830	4830	4830



TEST NUMBER: P252906

CATALOG NUMBER: PRS430D010-S4M24-44SWDMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	4.1
10°-20°	327.0	11.9
20°-30°	510.8	18.6
30°-40°	610.9	22.2
40°-50°	587.2	21.4
50°-60°	394.4	14.3
60°-70°	161.0	5.9
70°-80°	40.0	1.5
80°-90°	6.3	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°	949.4	34.5
0°-40°	1560.3	56.8
0°-60°	2541.9	92.5
0°-90°	2749.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1171	1171	1171	1171	1171	112
15°	1157	1157	1157	1154	1154	327
25°	1100	1111	1127	1108	1097	505
35°	950	977	1015	980	950	590
45°	715	767	824	770	720	542
55°	352	426	562	428	355	319
65°	134	150	186	150	134	135
75°	25	27	36	27	25	36
85°	6	6	6	6	6	6
90°	0	0	0	0	0	



TEST NUMBER: P252906

CATALOG NUMBER: PRS430D010-S4M24-44SWDMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.5	1173.5	1173.5	1173.5	1173.5
2.5°	1170.7	1170.7	1170.7	1173.5	1173.5
5°	1170.7	1170.7	1170.7	1170.7	1170.7
7.5°	1168.0	1168.0	1168.0	1168.0	1168.0
10°	1168.0	1165.3	1165.3	1165.3	1165.3
12.5°	1159.8	1159.8	1159.8	1159.8	1157.1
15°	1157.1	1157.1	1157.1	1154.4	1154.4
17.5°	1151.6	1151.6	1148.9	1148.9	1148.9
20°	1140.7	1143.4	1143.4	1140.7	1135.3
22.5°	1121.6	1129.8	1138.0	1127.1	1118.9
25°	1099.8	1110.7	1127.1	1108.0	1097.0
27.5°	1067.0	1083.4	1108.0	1083.4	1067.0
30°	1031.6	1053.4	1086.1	1053.4	1031.6
32.5°	993.3	1017.9	1053.4	1017.9	993.3
35°	949.7	977.0	1015.2	979.7	949.7
37.5°	892.4	930.6	974.2	936.0	897.8
40°	837.8	878.7	925.1	881.5	840.5
42.5°	777.8	824.1	876.0	826.9	783.2
45°	715.0	766.8	824.1	769.6	720.4
47.5°	633.1	695.9	764.1	704.1	638.6
50°	537.6	616.7	701.3	622.2	540.3
52.5°	442.1	518.5	633.1	524.0	442.1
55°	352.0	425.7	562.2	428.4	354.8
57.5°	270.2	335.7	469.4	341.1	270.2
60°	207.4	256.5	363.0	259.3	210.1
62.5°	163.7	193.8	267.4	191.0	163.7
65°	133.7	150.1	185.6	150.1	133.7
67.5°	106.4	117.3	122.8	117.3	106.4
70°	79.1	90.1	84.6	90.1	76.4
72.5°	46.4	57.3	57.3	57.3	43.7
75°	24.6	27.3	35.5	27.3	24.6
77.5°	19.1	19.1	21.8	19.1	19.1
80°	13.6	13.6	13.6	13.6	13.6
82.5°	8.2	8.2	8.2	8.2	8.2
85°	5.5	5.5	5.5	5.5	5.5
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)