

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: P252941

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252941
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-S4M24-41SWDC-4000K
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319.8 lumens
Efficiency: N/A
Efficacy: 92.8 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

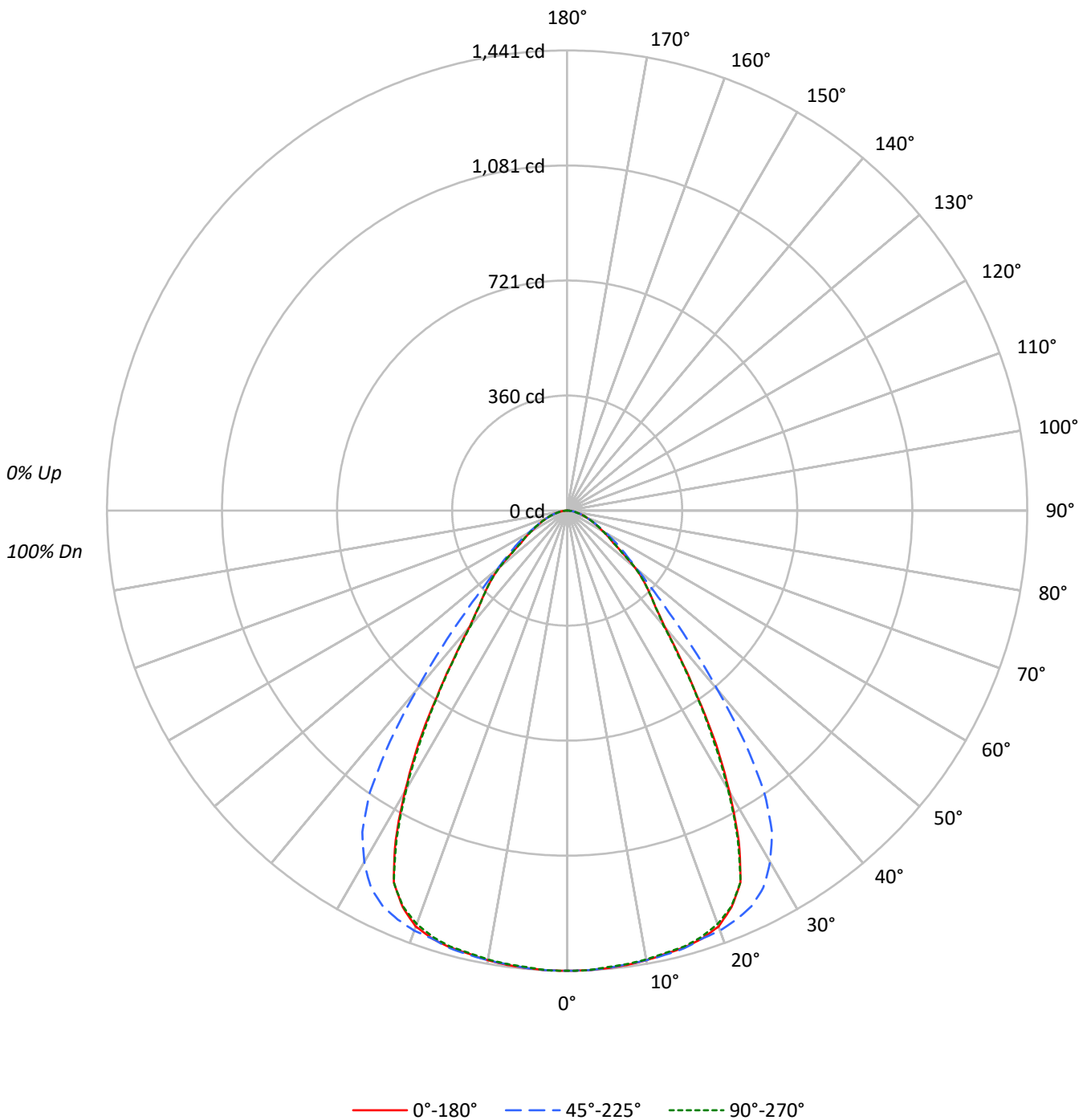
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	110291	110291	110291
5°	110498	110498	110290
10°	111138	111138	110928
15°	112225	112439	112003
20°	112898	114014	112230
25°	108476	115435	108476
30°	89755	112310	89021
35°	66419	100534	65905
40°	47442	73222	46893
45°	39511	48723	39511
50°	33009	33986	33009
55°	23434	27104	23807
60°	19748	21432	19748
65°	16898	17405	16898
70°	14748	14748	14748
75°	12983	12983	12983
80°	10888	10888	10888
85°	9661	9661	9661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	5.9
10°-20°	400.1	17.2
20°-30°	597.9	25.8
30°-40°	532.2	22.9
40°-50°	316.7	13.7
50°-60°	179.4	7.7
60°-70°	96.2	4.1
70°-80°	47.1	2.0
80°-90°	13.1	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°	1135.0	48.9
0°-40°	1667.2	71.9
0°-60°	2163.4	93.3
0°-90°	2319.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1438	1438	1438	1438	1435	137
15°	1416	1416	1419	1413	1413	400
25°	1284	1320	1367	1317	1284	573
35°	711	832	1076	829	705	449
45°	365	392	450	390	365	283
55°	176	195	203	195	178	167
65°	93	96	96	96	93	94
75°	44	44	44	44	44	47
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°	1440.9	1440.9	1440.9	1440.9	1440.9
2.5°	1440.9	1440.9	1440.9	1440.9	1440.9
5°	1438.1	1438.1	1438.1	1438.1	1435.4
7.5°	1435.4	1432.6	1432.6	1432.6	1432.6
10°	1429.9	1429.9	1429.9	1427.2	1427.2
12.5°	1421.7	1421.7	1424.4	1421.7	1418.9
15°	1416.2	1416.2	1418.9	1413.4	1413.4
17.5°	1405.2	1407.9	1405.2	1405.2	1399.7
20°	1386.0	1394.2	1399.7	1391.5	1377.8
22.5°	1344.8	1366.8	1386.0	1364.0	1342.1
25°	1284.4	1320.1	1366.8	1317.4	1284.4
27.5°	1163.7	1254.3	1331.1	1246.0	1155.4
30°	1015.5	1125.3	1270.7	1117.0	1007.2
32.5°	867.3	977.1	1193.9	971.6	853.5
35°	710.8	831.6	1075.9	828.8	705.3
37.5°	579.1	688.9	911.2	683.4	573.6
40°	474.8	559.9	732.8	557.1	469.3
42.5°	408.9	455.6	579.1	452.8	408.9
45°	365.0	392.5	450.1	389.7	365.0
47.5°	323.9	345.8	354.0	343.1	323.9
50°	277.2	301.9	285.4	301.9	277.2
52.5°	219.6	249.8	238.8	252.5	216.8
55°	175.6	194.9	203.1	194.9	178.4
57.5°	153.7	159.2	170.2	159.2	153.7
60°	129.0	134.5	140.0	134.5	129.0
62.5°	109.8	115.3	115.3	115.3	112.5
65°	93.3	96.1	96.1	96.1	93.3
67.5°	79.6	79.6	79.6	79.6	79.6
70°	65.9	65.9	65.9	65.9	65.9
72.5°	54.9	54.9	54.9	54.9	54.9
75°	43.9	43.9	43.9	43.9	43.9
77.5°	35.7	35.7	32.9	35.7	32.9
80°	24.7	24.7	24.7	24.7	24.7
82.5°	19.2	19.2	19.2	19.2	19.2
85°	11.0	11.0	11.0	11.0	11.0
87.5°	5.5	5.5	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)