

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: P241971

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS430D010-S4M24-41SMDC
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, DEEP TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2566.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.85
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

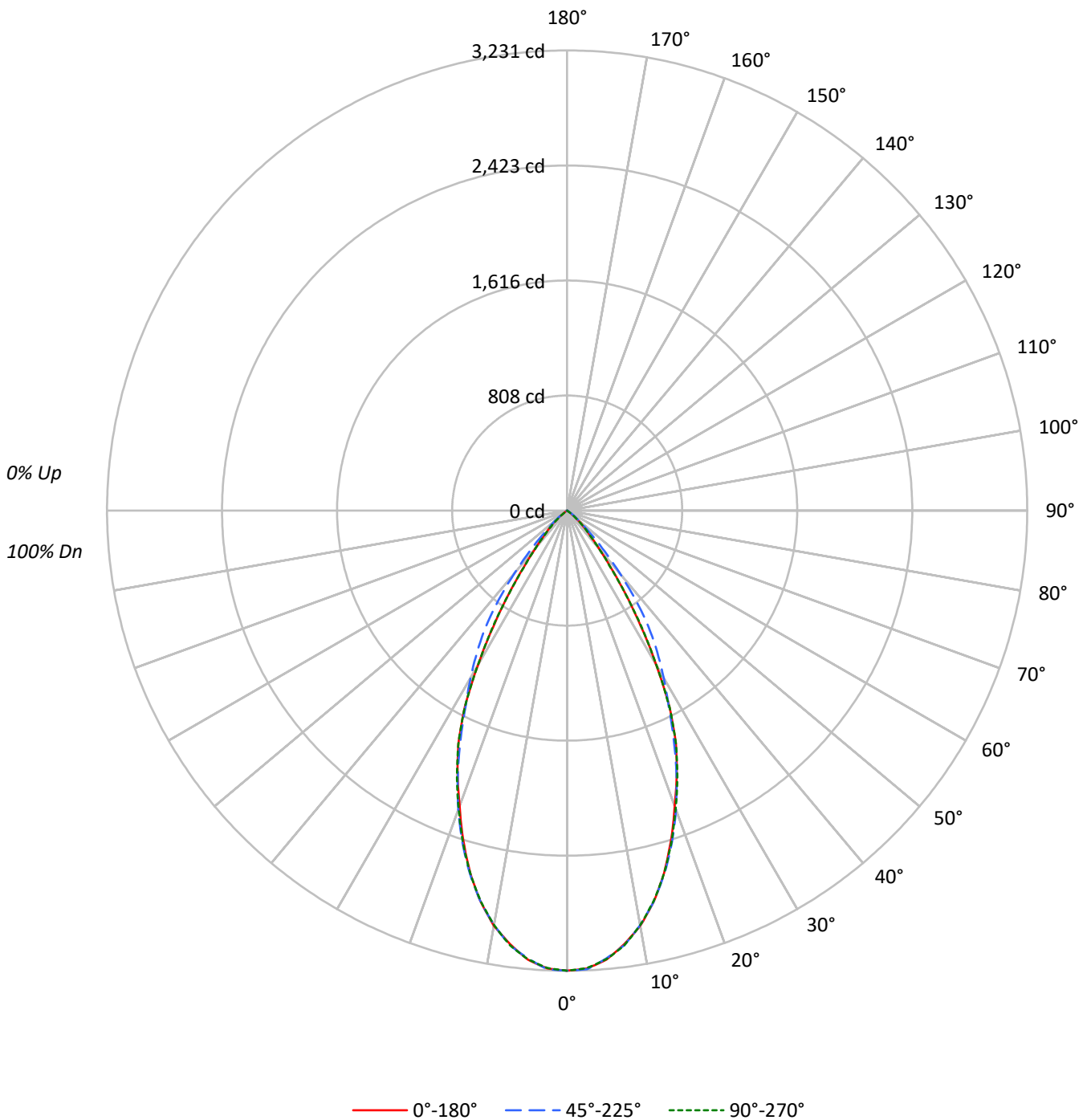
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101		101	100	98		98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57		64	60	56		63	59	56	55
10	73	63	57	54	72	63	57	53	62	57	53		61	56	53		60	56	53	52

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	247304	247304	247304
5°	243216	242586	243009
10°	230126	229698	229698
15°	208672	209108	208672
20°	179822	182046	181378
25°	152570	149344	152570
30°	110949	119629	110702
35°	66550	93068	66297
40°	34632	57264	34353
45°	18900	27181	18316
50°	8443	11372	8121
55°	734	4737	360
60°	413	1255	413
65°	0	489	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	11.5
10°-20°	731.5	28.5
20°-30°	815.4	31.8
30°-40°	524.9	20.5
40°-50°	171.2	6.7
50°-60°	26.8	1.0
60°-70°	1.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1842.2	71.8
0°-40°	2367.0	92.2
0°-60°	2565.0	99.9
0°-90°	2566.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3231	3231	3231	3231	3231	
5°	3165	3165	3157	3168	3163	295
15°	2633	2633	2639	2639	2633	730
25°	1806	1804	1768	1804	1806	809
35°	712	821	996	819	710	456
45°	175	199	251	194	169	142
55°	6	22	36	22	3	17
65°	0	0	3	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3230.9	3230.9	3230.9	3230.9	3230.9
2.5°	3217.3	3220.0	3222.7	3220.0	3214.5
5°	3165.4	3165.4	3157.2	3168.2	3162.7
7.5°	3069.9	3072.6	3078.1	3072.6	3078.1
10°	2960.8	2955.3	2955.3	2955.3	2955.3
12.5°	2810.7	2807.9	2810.7	2807.9	2807.9
15°	2633.3	2633.3	2638.8	2638.8	2633.3
17.5°	2425.9	2431.4	2445.0	2442.3	2436.8
20°	2207.6	2218.5	2234.9	2221.3	2226.7
22.5°	2011.1	2000.2	2005.7	2000.2	2022.1
25°	1806.5	1803.7	1768.3	1803.7	1806.5
27.5°	1555.4	1593.6	1541.8	1596.4	1555.4
30°	1255.3	1350.8	1353.5	1361.7	1252.5
32.5°	963.3	1075.2	1176.1	1080.6	974.2
35°	712.2	821.4	996.0	818.6	709.5
37.5°	496.6	594.9	788.6	592.2	491.2
40°	346.6	412.1	573.1	414.8	343.8
42.5°	242.9	286.5	390.2	278.3	240.1
45°	174.6	199.2	251.1	193.7	169.2
47.5°	120.1	139.2	155.5	136.4	117.3
50°	70.9	92.8	95.5	92.8	68.2
52.5°	32.7	51.8	60.0	51.8	32.7
55°	5.5	21.8	35.5	21.8	2.7
57.5°	2.7	2.7	19.1	2.7	2.7
60°	2.7	2.7	8.2	2.7	2.7
62.5°	2.7	2.7	2.7	2.7	2.7
65°	0.0	0.0	2.7	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)