

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: P252999

Luminaire Tested: **PRS615D010-S6M12-64SWDC-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SWDC-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1379.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

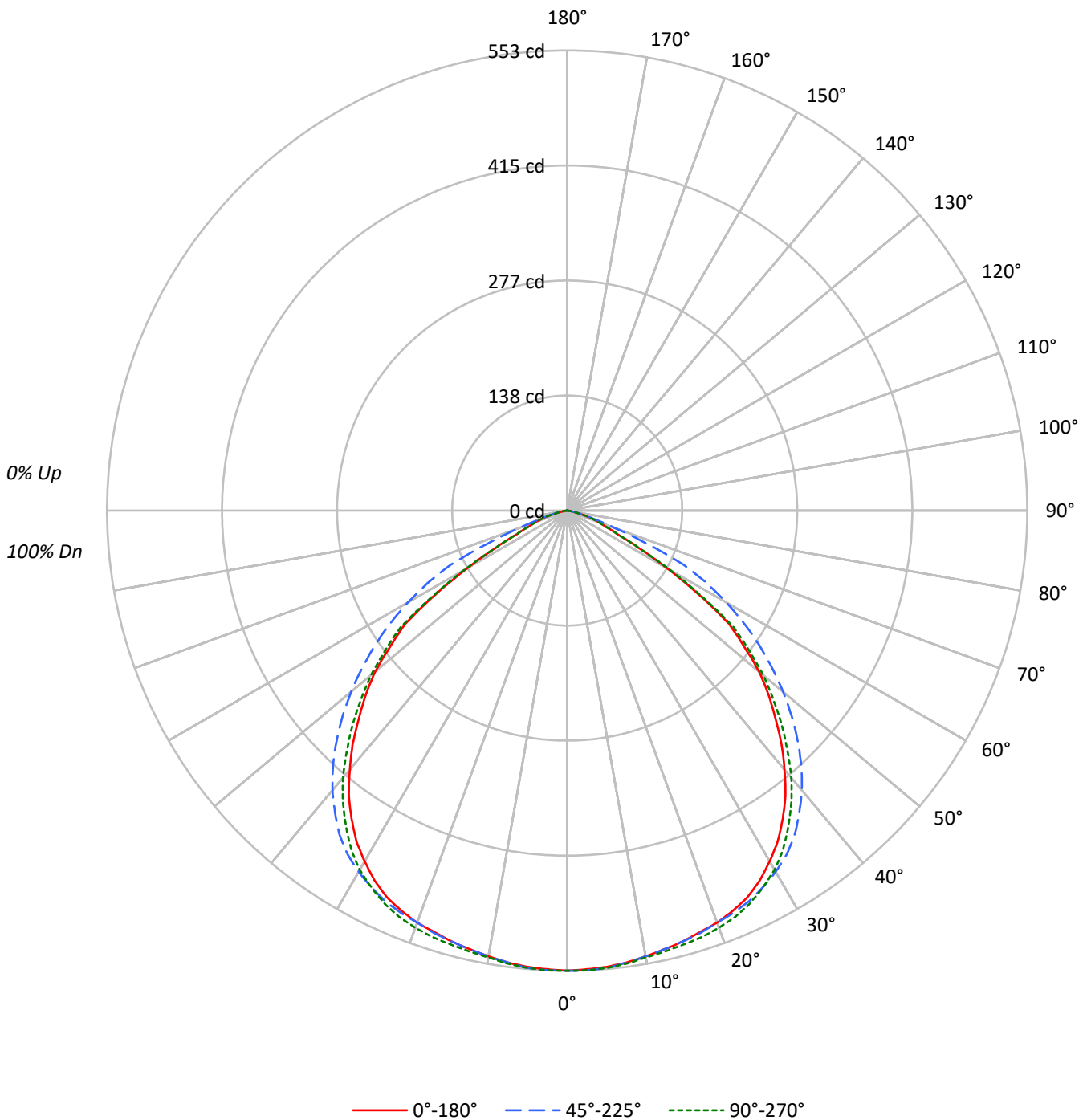
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23810	23810	23810
5°	23788	23845	23845
10°	23779	23779	23836
15°	23896	23896	24070
20°	24147	24147	24444
25°	24357	24604	24727
30°	24202	24913	24784
35°	23742	25040	24357
40°	22836	24663	23567
45°	21579	23869	22213
50°	20175	22694	20604
55°	17828	21146	18316
60°	11961	19005	12297
65°	6744	15740	6744
70°	5061	7679	4897
75°	3028	3460	3244
80°	1289	1612	1289
85°	642	642	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	3.8
10°-20°	151.9	11.0
20°-30°	238.1	17.3
30°-40°	290.8	21.1
40°-50°	289.2	21.0
50°-60°	228.3	16.6
60°-70°	102.2	7.4
70°-80°	23.8	1.7
80°-90°	2.5	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°	442.4	32.1
0°-40°	733.2	53.2
0°-60°	1250.7	90.7
0°-90°	1379.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1379.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	550	550	552	552	552	52
15°	536	535	536	537	540	152
25°	513	514	518	519	520	236
35°	452	461	476	470	463	282
45°	354	371	392	380	365	273
55°	238	256	282	261	244	203
65°	66	87	154	88	66	74
75°	18	22	21	22	20	21
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	553.0	553.0	553.0	553.0	553.0
2.5°	551.7	553.0	553.0	553.0	553.0
5°	550.4	550.4	551.7	551.7	551.7
7.5°	547.8	547.8	547.8	549.1	549.1
10°	543.9	543.9	543.9	545.2	545.2
12.5°	540.0	540.0	540.0	541.3	542.6
15°	536.1	534.8	536.1	537.4	540.0
17.5°	530.9	532.2	532.2	534.8	537.4
20°	527.0	527.0	527.0	530.9	533.5
22.5°	520.5	520.5	523.1	525.7	528.3
25°	512.7	514.0	517.9	519.2	520.5
27.5°	501.1	505.0	510.1	511.4	510.1
30°	486.8	492.0	501.1	499.8	498.5
32.5°	471.2	477.7	490.7	486.8	482.9
35°	451.7	460.8	476.4	469.9	463.4
37.5°	431.0	442.6	458.2	451.7	442.6
40°	406.3	420.6	438.8	429.7	419.3
42.5°	381.6	397.2	416.7	405.0	392.0
45°	354.4	371.3	392.0	380.3	364.8
47.5°	328.4	345.3	366.1	351.8	336.2
50°	301.2	316.7	338.8	323.2	307.6
52.5°	267.4	288.2	310.2	293.4	275.2
55°	237.5	255.7	281.7	260.9	244.0
57.5°	186.9	223.3	251.8	227.2	192.1
60°	138.9	173.9	220.7	179.1	142.8
62.5°	96.1	128.5	189.5	129.8	97.4
65°	66.2	87.0	154.5	88.3	66.2
67.5°	49.3	58.4	103.8	58.4	49.3
70°	40.2	42.8	61.0	42.8	38.9
72.5°	29.9	33.8	33.8	33.8	31.2
75°	18.2	22.1	20.8	22.1	19.5
77.5°	7.8	10.4	13.0	11.7	7.8
80°	5.2	5.2	6.5	5.2	5.2
82.5°	3.9	3.9	3.9	3.9	3.9
85°	1.3	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	1.3	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)