

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: P253009

Luminaire Tested: **PRS615D010-S6M12-64SWDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253009
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-S6M12-64SWDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1378.1 lumens
Efficiency: N/A
Efficacy: 109.4 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

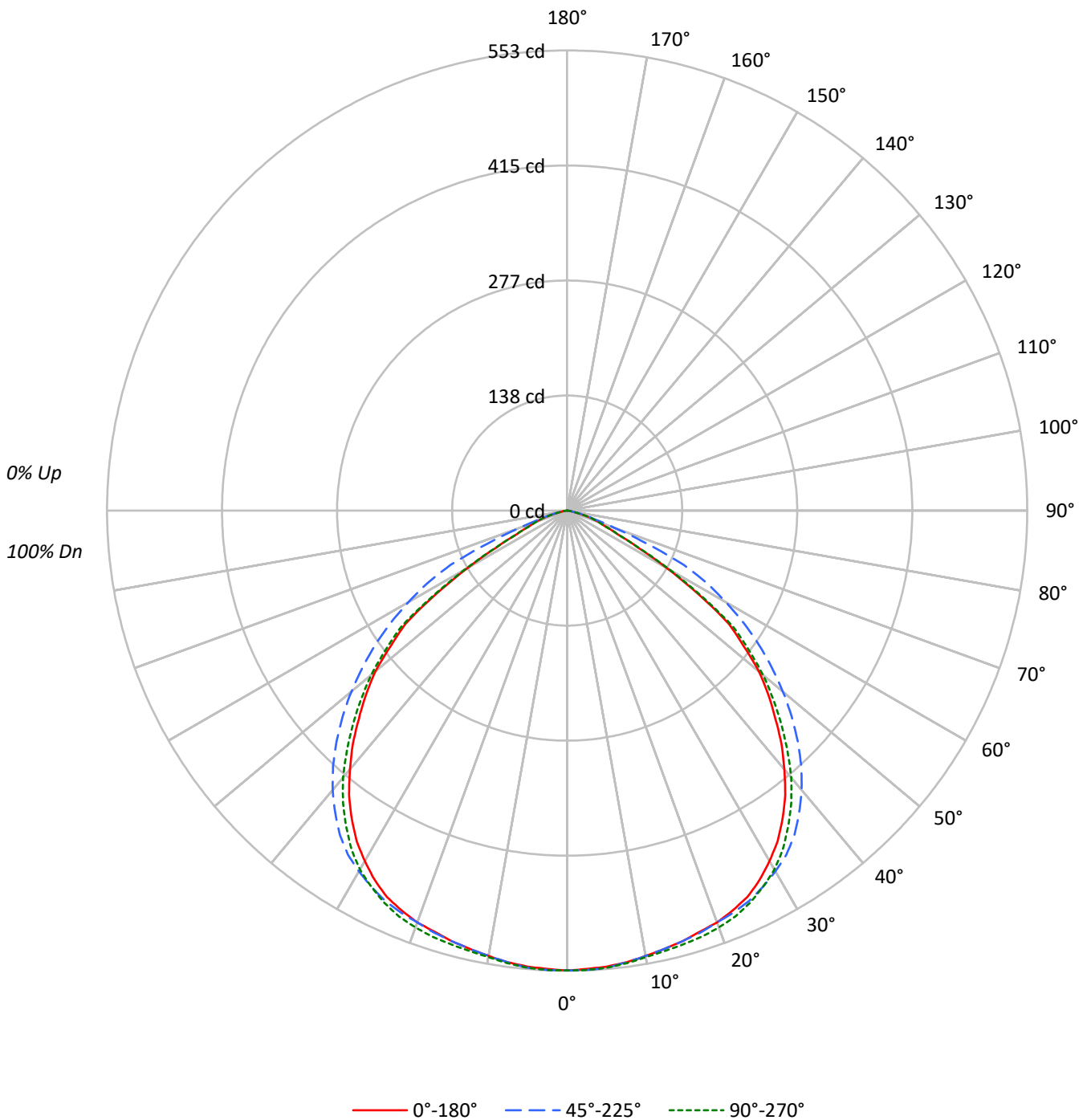
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23793	23793	23793
5°	23771	23827	23827
10°	23762	23762	23819
15°	23879	23879	24052
20°	24128	24128	24426
25°	24338	24585	24708
30°	24182	24893	24764
35°	23726	25019	24341
40°	22819	24640	23550
45°	21561	23851	22194
50°	20155	22674	20590
55°	17820	21131	18301
60°	11952	18988	12288
65°	6744	15730	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°	151.8	11.0
20°-30°	237.9	17.3
30°-40°	290.6	21.1
40°-50°	288.9	21.0
50°-60°	228.1	16.6
60°-70°	102.1	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°	442.1	32.1
0°-40°	732.7	53.2
0°-60°	1249.7	90.7
0°-90°	1378.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1378.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	553	553	553	553	553	
5°	550	550	551	551	551	52
15°	536	534	536	537	540	151
25°	512	514	518	519	520	235
35°	451	460	476	470	463	282
45°	354	371	392	380	364	273
55°	237	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°	552.6	552.6	552.6	552.6	552.6
2.5°	551.3	552.6	552.6	552.6	552.6
5°	550.0	550.0	551.3	551.3	551.3
7.5°	547.4	547.4	547.4	548.7	548.7
10°	543.5	543.5	543.5	544.8	544.8
12.5°	539.6	539.6	539.6	540.9	542.2
15°	535.7	534.4	535.7	537.0	539.6
17.5°	530.5	531.8	531.8	534.4	537.0
20°	526.6	526.6	526.6	530.5	533.1
22.5°	520.1	520.1	522.7	525.3	527.9
25°	512.3	513.6	517.5	518.8	520.1
27.5°	500.7	504.6	509.7	511.0	509.7
30°	486.4	491.6	500.7	499.4	498.1
32.5°	470.8	477.3	490.3	486.4	482.5
35°	451.4	460.5	476.0	469.5	463.1
37.5°	430.6	442.3	457.9	451.4	442.3
40°	406.0	420.2	438.4	429.3	419.0
42.5°	381.3	396.9	416.4	404.7	391.7
45°	354.1	371.0	391.7	380.0	364.5
47.5°	328.2	345.0	365.8	351.5	335.9
50°	300.9	316.5	338.5	323.0	307.4
52.5°	267.2	287.9	310.0	293.1	275.0
55°	237.4	255.5	281.5	260.7	243.8
57.5°	186.8	223.1	251.6	227.0	192.0
60°	138.8	173.8	220.5	179.0	142.7
62.5°	96.0	128.4	189.4	129.7	97.3
65°	66.2	86.9	154.4	88.2	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°	29.8	33.7	33.7	33.7	31.1
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)