

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: P237998

Luminaire Tested: **PRS610D010-S6M12-64SNDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P237998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SNDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW 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: 1147.0 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.85
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

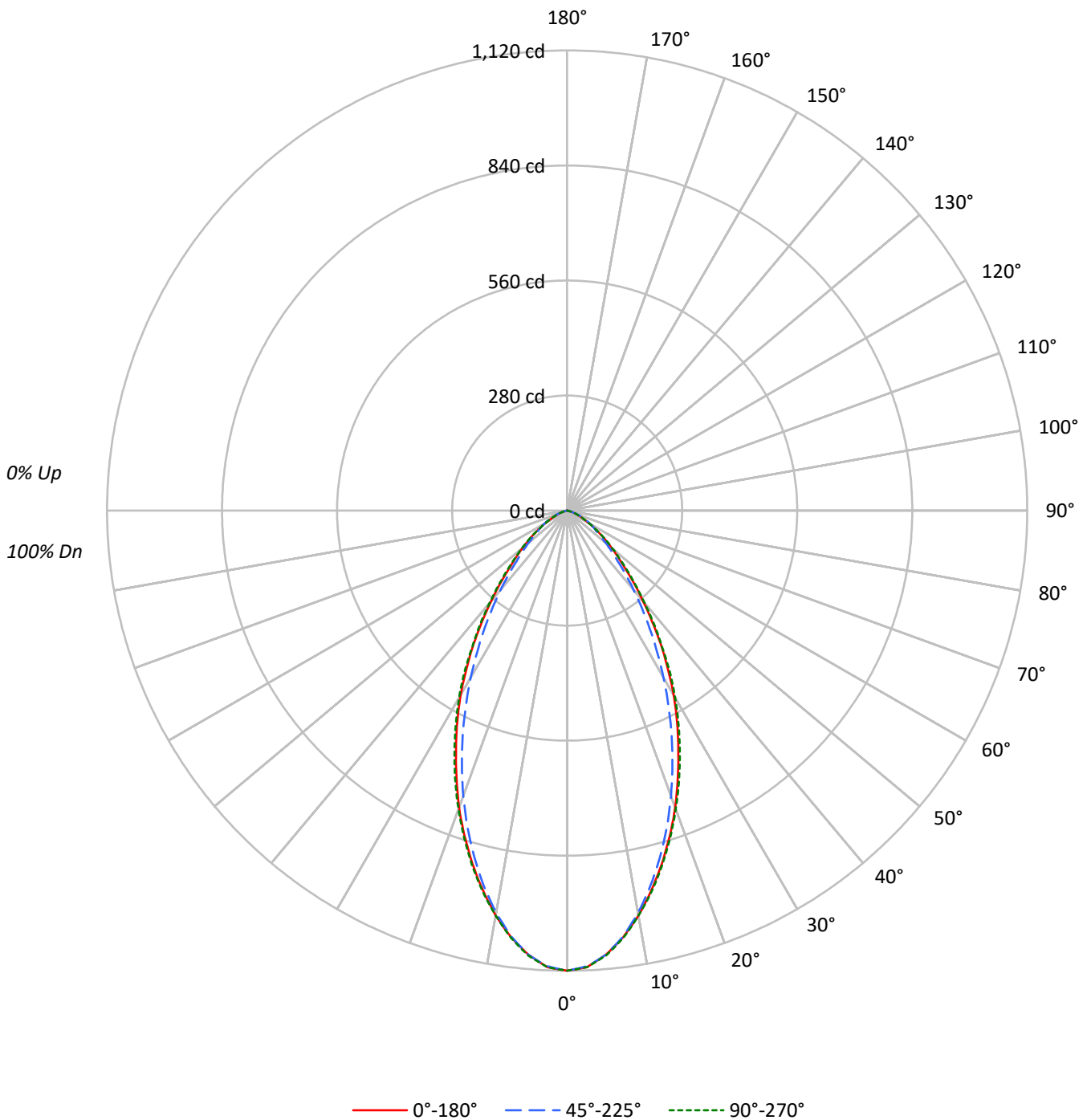
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75				75
4	93	84	77	72	91	83	77	72	81	75	71	78	74	70	76	73	69	68				68
5	87	78	71	66	85	76	70	65	75	69	65	73	68	64	71	67	64	62				62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57				57
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52				52
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42				42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48222	48222	48222
5°	46894	46894	46980
10°	43764	43458	43764
15°	39671	38914	39850
20°	35235	33860	35418
25°	30404	28552	30832
30°	25753	23317	26151
35°	20867	18396	21077
40°	16131	14107	16468
45°	12178	10595	12604
50°	9445	8239	9712
55°	7206	6531	7356
60°	5253	5511	5253
65°	3769	4279	3668
70°	2644	3021	2644
75°	1497	1664	1497
80°	496	496	496
85°	494	494	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	8.8
10°-20°	246.0	21.4
20°-30°	284.3	24.8
30°-40°	233.2	20.3
40°-50°	147.4	12.9
50°-60°	83.7	7.3
60°-70°	39.7	3.5
70°-80°	11.1	1.0
80°-90°	0.8	0.1
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°	631.1	55.0
0°-40°	864.3	75.4
0°-60°	1095.4	95.5
0°-90°	1147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1085	1085	1085	1088	1087	101
15°	890	883	873	885	894	248
25°	640	617	601	622	649	294
35°	397	368	350	374	401	248
45°	200	184	174	187	207	158
55°	96	92	87	94	98	87
65°	37	39	42	39	36	38
75°	9	10	10	10	9	10
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120	1120	1120	1120	1120
2.5°	1112	1111	1110	1111	1112
5°	1085	1085	1085	1088	1087
7.5°	1047	1046	1045	1048	1049
10°	1001	997	994	999	1001
12.5°	947	942	936	943	950
15°	890	883	873	885	894
17.5°	830	817	807	820	834
20°	769	753	739	753	773
22.5°	704	683	669	687	712
25°	640	617	601	622	649
27.5°	579	551	533	557	587
30°	518	488	469	493	526
32.5°	456	427	407	433	465
35°	397	368	350	374	401
37.5°	339	312	298	317	347
40°	287	263	251	268	293
42.5°	242	220	210	224	248
45°	200	184	174	187	207
47.5°	168	154	146	157	173
50°	141	130	123	132	145
52.5°	118	109	103	111	121
55°	96	92	87	94	98
57.5°	76	75	75	76	77
60°	61	61	64	62	61
62.5°	47	49	54	49	47
65°	37	39	42	39	36
67.5°	28	30	32	30	27
70°	21	23	24	23	21
72.5°	15	16	16	16	14
75°	9	10	10	10	9
77.5°	3	5	5	5	3
80°	2	2	2	2	2
82.5°	1	1	1	1	1
85°	1	1	1	1	1
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)