

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: P238179

Luminaire Tested: **PRS615D010-S6M12-61SNDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-16)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-61SNDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, DEEP 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: 1468.6 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.87
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

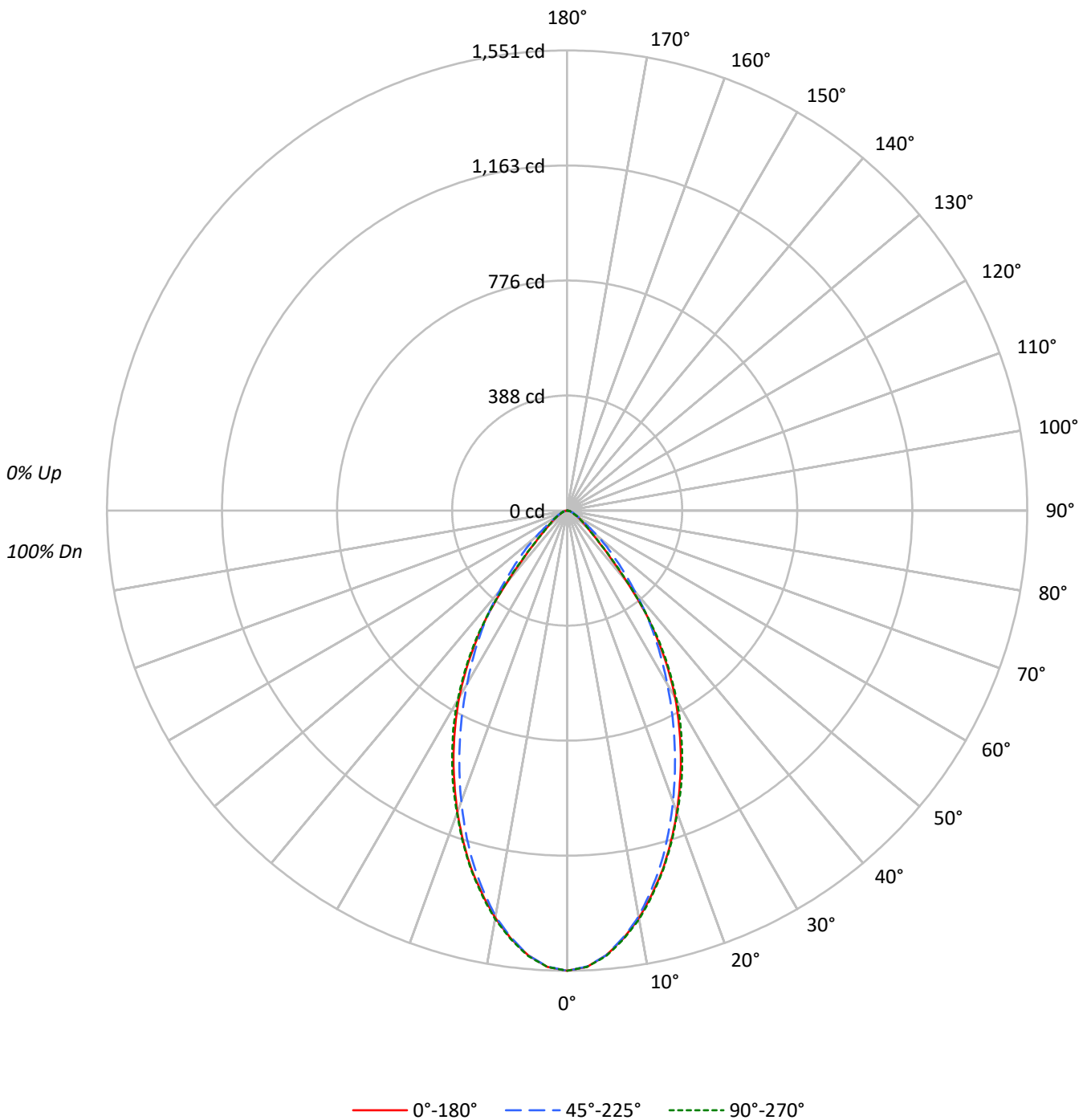
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92	
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84	
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77	
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71	71	71	71	
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65	
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60	60	60	60	
7	80	70	63	59	78	69	63	58	68	62	58	66	61	58	65	61	57	56	56	56	56	
8	76	65	59	54	74	65	58	54	64	58	54	62	57	54	61	57	53	52	52	52	52	
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49	
10	68	58	51	47	67	57	51	47	56	51	47	56	51	47	55	50	47	45	45	45	45	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	66784	66784	66784
5°	65025	65025	65141
10°	60945	60714	61120
15°	55669	54720	55785
20°	49535	47766	49718
25°	43074	40670	43578
30°	36208	33559	36735
35°	27994	26875	28620
40°	17514	20054	17884
45°	9243	13944	9401
50°	5794	9096	5888
55°	4301	5300	4399
60°	3212	3668	3212
65°	2445	2853	2445
70°	2178	2341	2178
75°	1996	1996	1996
80°	1661	1661	1661
85°	1334	1334	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	9.5
10°-20°	345.0	23.5
20°-30°	404.0	27.5
30°-40°	322.7	22.0
40°-50°	153.4	10.4
50°-60°	60.3	4.1
60°-70°	26.8	1.8
70°-80°	12.8	0.9
80°-90°	3.5	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°	889.0	60.5
0°-40°	1211.7	82.5
0°-60°	1425.5	97.1
0°-90°	1468.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1504	1504	1504	1506	1507	140
15°	1249	1236	1228	1238	1252	348
25°	907	880	856	885	917	414
35°	533	513	511	519	544	327
45°	152	182	229	185	154	129
55°	57	64	71	65	59	53
65°	24	25	28	25	24	25
75°	12	12	12	12	12	13
85°	3	3	3	3	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1551.1	1551.1	1551.1	1551.1	1551.1
2.5°	1539.1	1539.1	1537.8	1539.1	1539.1
5°	1504.5	1504.5	1504.5	1505.8	1507.2
7.5°	1453.9	1453.9	1451.2	1455.2	1456.6
10°	1394.0	1390.0	1388.7	1391.3	1398.0
12.5°	1323.4	1316.8	1310.1	1318.1	1327.4
15°	1248.9	1235.6	1227.6	1238.2	1251.5
17.5°	1166.3	1149.0	1137.0	1153.0	1170.3
20°	1081.1	1062.5	1042.5	1065.1	1085.1
22.5°	993.2	969.3	949.3	975.9	1003.9
25°	906.7	880.1	856.1	885.4	917.3
27.5°	817.5	788.2	764.2	796.2	830.8
30°	728.3	697.7	675.0	708.3	738.9
32.5°	632.4	601.8	591.1	612.5	641.7
35°	532.6	512.6	511.3	519.3	544.5
37.5°	430.0	427.4	431.4	432.7	432.7
40°	311.6	339.5	356.8	346.2	318.2
42.5°	215.7	254.3	286.3	258.3	222.3
45°	151.8	182.4	229.0	185.1	154.4
47.5°	110.5	134.5	181.1	135.8	111.8
50°	86.5	101.2	135.8	99.9	87.9
52.5°	70.6	79.9	97.2	79.9	71.9
55°	57.3	63.9	70.6	65.2	58.6
57.5°	47.9	51.9	53.3	53.3	47.9
60°	37.3	41.3	42.6	41.3	37.3
62.5°	28.0	32.0	34.6	33.3	28.0
65°	24.0	25.3	28.0	25.3	24.0
67.5°	21.3	21.3	22.6	21.3	21.3
70°	17.3	18.6	18.6	18.6	17.3
72.5°	14.6	14.6	14.6	14.6	14.6
75°	12.0	12.0	12.0	12.0	12.0
77.5°	9.3	9.3	9.3	9.3	9.3
80°	6.7	6.7	6.7	8.0	6.7
82.5°	5.3	5.3	5.3	5.3	5.3
85°	2.7	2.7	2.7	2.7	2.7
87.5°	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)