

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: P241788

Luminaire Tested: **PRS410D010-S4M12-44SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-47)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS410D010-S4M12-44SMDC
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1013.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.1
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

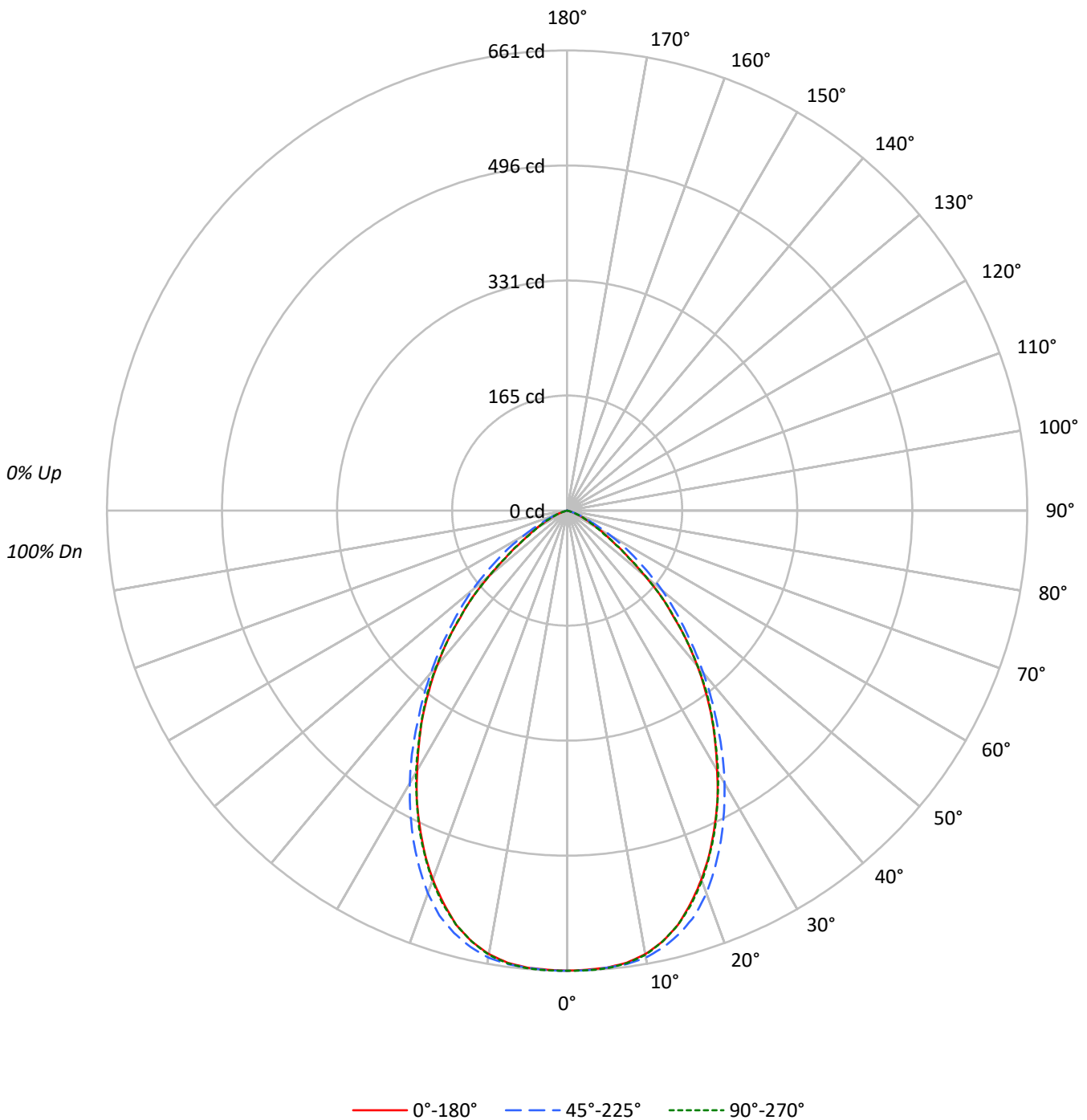
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98		99	97	95		95	94	93	91
2	105	99	94	90	102	97	92	89	94	90	87		91	87	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68		76	71	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55		65	59	55		63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46		56	50	46		55	49	46	44
9	66	54	47	43	65	54	47	43	53	47	42		52	46	42		51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	50595	50595	50595
5°	50635	50635	50712
10°	50288	50676	50365
15°	48814	49765	48814
20°	45941	47652	46104
25°	42313	44171	42482
30°	38094	39950	38359
35°	33826	35134	33920
40°	29077	30376	29177
45°	23490	25655	23706
50°	17386	21196	17505
55°	11477	16147	11477
60°	7654	11175	7348
65°	5071	6520	5071
70°	2909	3357	2909
75°	0	1183	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	6.2
10°-20°	174.2	17.2
20°-30°	235.3	23.2
30°-40°	231.9	22.9
40°-50°	177.1	17.5
50°-60°	94.0	9.3
60°-70°	33.7	3.3
70°-80°	4.2	0.4
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°	472.1	46.6
0°-40°	704.0	69.5
0°-60°	975.1	96.3
0°-90°	1013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	659	659	659	660	660	63
15°	616	623	628	622	616	172
25°	501	514	523	516	503	230
35°	362	373	376	374	363	225
45°	217	231	237	232	219	168
55°	86	101	121	101	86	80
65°	28	33	36	33	28	29
75°	0	1	4	1	0	3
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°	661	661	661	661	661
2.5°	660	660	661	661	661
5°	659	659	659	660	660
7.5°	655	655	657	656	656
10°	647	649	652	649	648
12.5°	634	639	642	639	634
15°	616	623	628	622	616
17.5°	591	600	610	600	593
20°	564	575	585	576	566
22.5°	534	546	555	547	535
25°	501	514	523	516	503
27.5°	468	481	488	482	468
30°	431	445	452	447	434
32.5°	396	409	415	410	397
35°	362	373	376	374	363
37.5°	326	338	340	340	329
40°	291	302	304	303	292
42.5°	255	267	270	267	255
45°	217	231	237	232	219
47.5°	185	196	207	197	184
50°	146	165	178	164	147
52.5°	112	132	148	131	112
55°	86	101	121	101	86
57.5°	65	77	97	76	63
60°	50	59	73	57	48
62.5°	38	44	52	43	37
65°	28	33	36	33	28
67.5°	20	24	24	24	20
70°	13	16	15	16	13
72.5°	5	8	8	8	5
75°	0	1	4	1	0
77.5°	0	0	0	0	0
80°	0	0	0	0	0
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)