

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: P241773

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P241773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS410D010-S4M12-44SNDC
Description: HALO COMMERCIAL 4" SQUARE, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

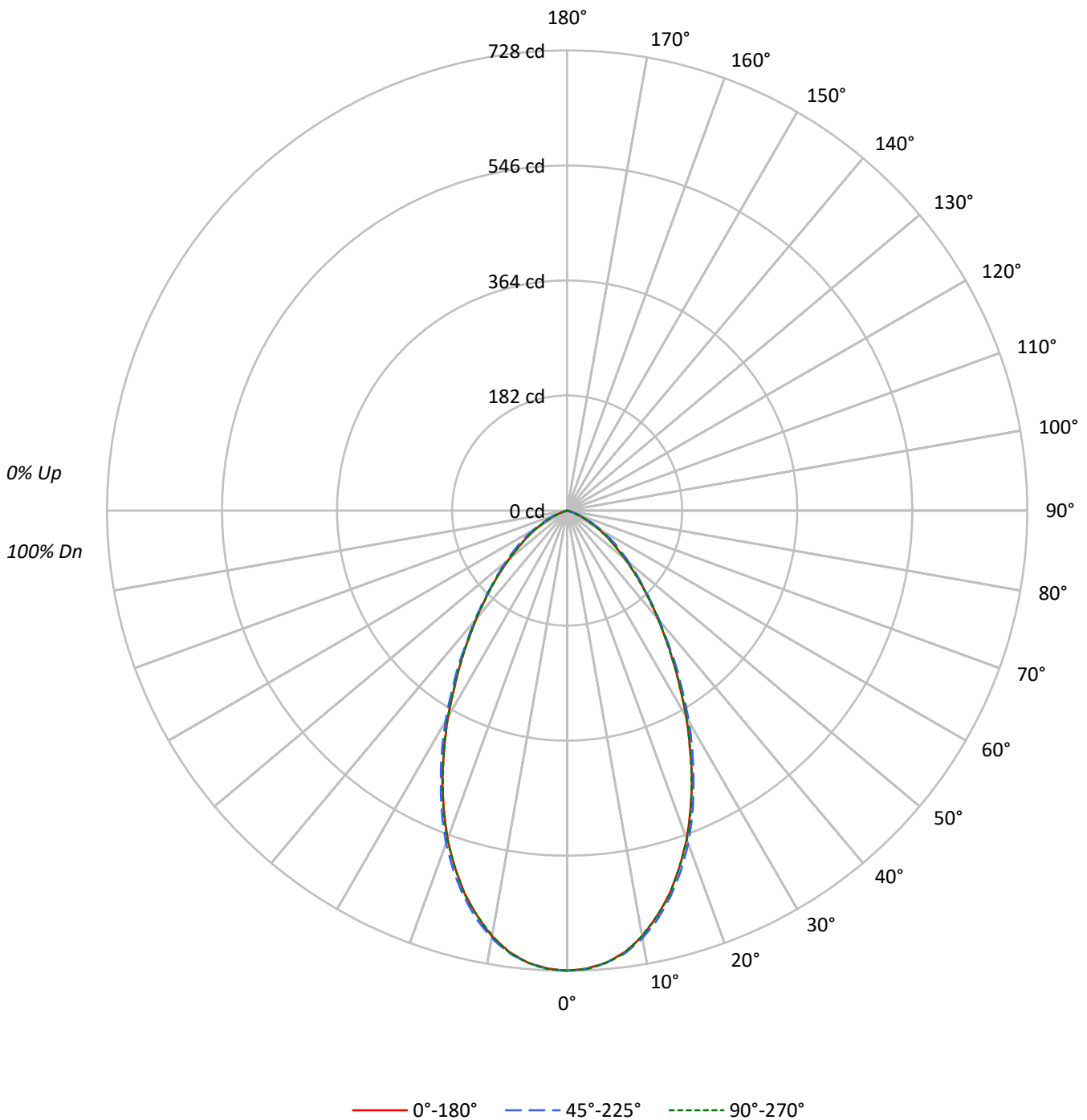
Lumens per Lamp: N/A
Luminaire Lumens: 897.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.95
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	102	103	100	98	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43
10	64	53	46	42	63	52	46	42	51	45	41	51	45	41	50	45	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55716	55716	55716
5°	55160	55160	55160
10°	53156	53389	53078
15°	49678	50074	49757
20°	45037	45607	45118
25°	39433	39939	39264
30°	33312	34019	33312
35°	27379	28033	27379
40°	22282	22682	22382
45°	18078	18402	18078
50°	14290	15123	14290
55°	11210	12411	11210
60°	8573	9491	8573
65°	5796	6701	5796
70°	2909	3805	2909
75°	0	887	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	7.5
10°-20°	175.7	19.6
20°-30°	215.2	24.0
30°-40°	186.4	20.8
40°-50°	132.2	14.7
50°-60°	79.9	8.9
60°-70°	35.7	4.0
70°-80°	4.4	0.5
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°	458.4	51.1
0°-40°	644.8	71.9
0°-60°	857.0	95.5
0°-90°	897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	718	718	718	718	718	67
15°	627	630	632	631	628	175
25°	467	473	473	472	465	213
35°	293	299	300	298	293	184
45°	167	171	170	172	167	130
55°	84	88	93	89	84	76
65°	32	36	37	36	32	32
75°	0	1	3	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°	727.9	727.9	727.9	727.9	727.9
2.5°	724.9	724.9	725.9	725.9	725.9
5°	717.9	717.9	717.9	717.9	717.9
7.5°	703.9	703.9	705.9	704.9	704.9
10°	683.9	683.9	686.9	684.9	682.9
12.5°	656.9	659.9	661.9	659.9	656.9
15°	626.9	629.9	631.9	630.9	627.9
17.5°	590.9	595.9	597.9	595.9	590.9
20°	552.9	556.9	559.9	556.9	553.9
22.5°	509.9	514.9	517.9	514.9	511.9
25°	466.9	472.9	472.9	471.9	464.9
27.5°	419.9	426.9	428.9	426.9	420.9
30°	376.9	381.9	384.9	381.9	376.9
32.5°	331.9	338.9	339.9	338.9	332.9
35°	293.0	299.0	300.0	298.0	293.0
37.5°	256.0	262.0	260.0	262.0	256.0
40°	223.0	228.0	227.0	228.0	224.0
42.5°	194.0	198.0	197.0	198.0	193.0
45°	167.0	171.0	170.0	172.0	167.0
47.5°	143.0	147.0	148.0	147.0	143.0
50°	120.0	126.0	127.0	126.0	120.0
52.5°	100.0	105.0	109.0	106.0	100.0
55°	84.0	88.0	93.0	89.0	84.0
57.5°	69.0	73.0	77.0	74.0	69.0
60°	56.0	60.0	62.0	60.0	56.0
62.5°	43.0	48.0	49.0	48.0	43.0
65°	32.0	36.0	37.0	36.0	32.0
67.5°	22.0	26.0	26.0	26.0	22.0
70°	13.0	16.0	17.0	17.0	13.0
72.5°	5.0	8.0	9.0	8.0	6.0
75°	0.0	1.0	3.0	1.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)