

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: P31443

Luminaire Tested: **PD6H213E-62HWWC_13DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31443
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD6H213E-62HWWC_13DTT
Description: HALO 6 INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL
LAMP. PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM, SLOTS
COVERED.
Light Source: (2) GE G24Q-1 SINGLE END FOUR PIN BASE DTT CFL LAMP 2700K
F13DBX/SPX827/4P 13 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
Sylvania QTP 1/2x13CF/UNV/DM

Summary

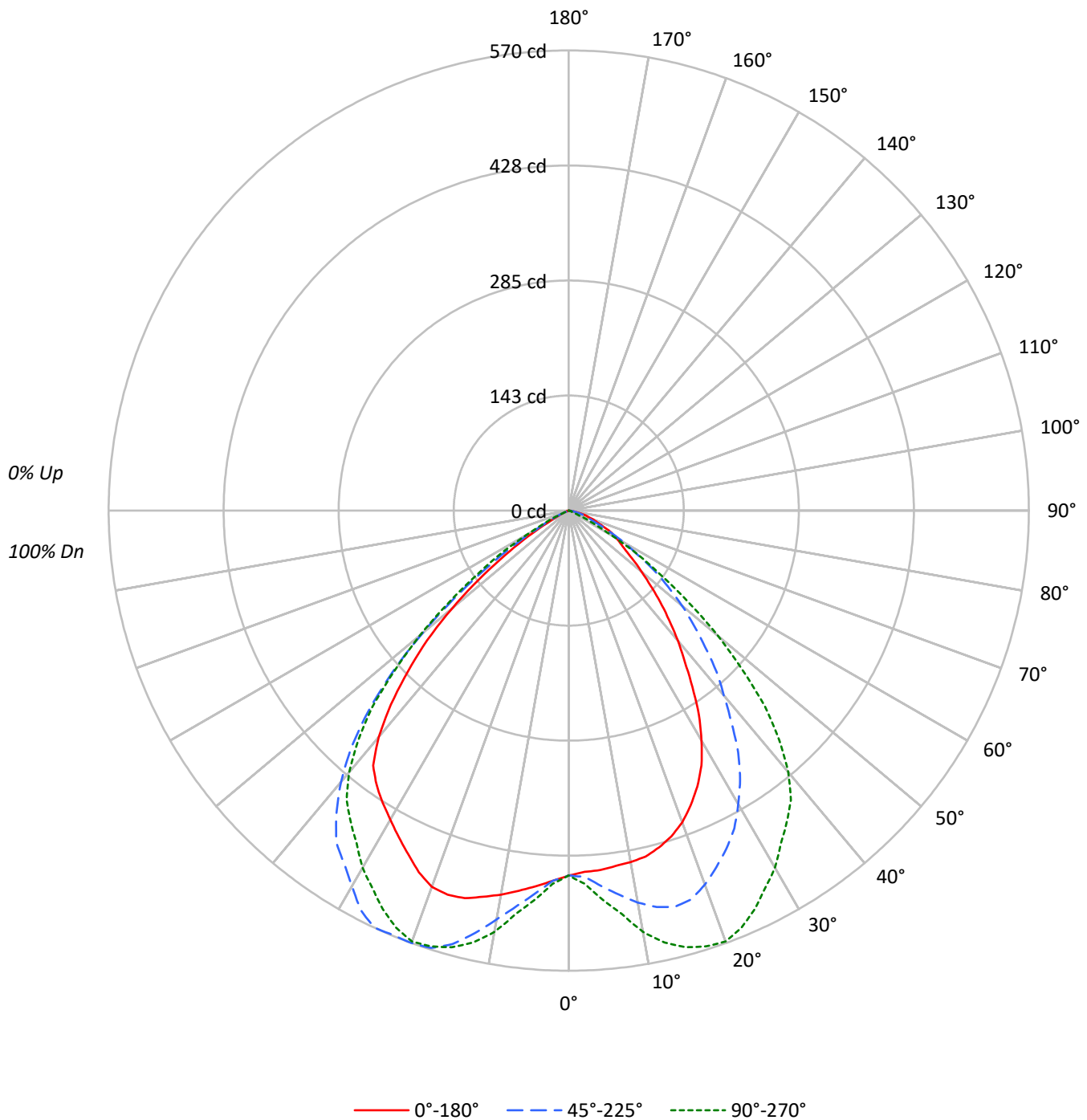
Lumens per Lamp: 900 (2 lamps)
Luminaire Lumens: 1053.7 lumens
Efficiency: 58.5%
Efficacy: 35.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.53 / 1.38
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.4
Input Voltage (V): 120.02
Input Current (Ain): 0.2450
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

TEST NUMBER: P31443

CATALOG NUMBER: PD6H213E-62HWWC_13DTT

Luminous Intensity Polar Plot





TEST NUMBER: P31443

CATALOG NUMBER: PD6H213E-62HWWC_13DTT

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60
1	65	63	62	60	64	62	60	59	60	58	57	57	56	55	55	55	54
2	61	57	54	52	60	56	53	51	54	52	50	52	51	49	51	49	48
3	57	52	48	45	55	51	47	45	49	46	44	48	45	43	46	44	42
4	53	47	43	39	51	46	42	39	45	41	39	44	41	38	42	40	38
5	49	43	38	35	48	42	38	35	41	37	34	40	37	34	39	36	34
6	46	39	34	31	45	38	34	31	37	34	31	36	33	31	36	33	30
7	42	36	31	28	42	35	31	28	34	30	28	34	30	28	33	30	27
8	40	33	28	25	39	32	28	25	32	28	25	31	27	25	30	27	25
9	37	30	26	23	36	30	26	23	29	25	23	29	25	23	28	25	23
10	35	28	24	21	34	28	24	21	27	23	21	27	23	21	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21949	21949	21949
5°	21342	23108	22297
10°	20911	25074	22851
15°	20408	26454	23478
20°	19535	26997	23575
25°	18169	26266	22651
30°	16206	25170	21772
35°	13554	23909	21066
40°	11083	22325	19316
45°	8864	19057	15622
50°	6934	14162	11106
55°	5424	8767	6055
60°	4667	4118	2059
65°	3643	1063	607
70°	2739	342	171
75°	1882	198	198
80°	830	119	119
85°	298	0	0



TEST NUMBER: P31443

CATALOG NUMBER: PD6H213E-62HWWC_13DTT

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	45.9	4.4	2.5	0°	452	452	452	452	452	
10°-20°	147.7	14.0	8.2	5°	447	467	484	476	467	42
20°-30°	229.8	21.8	12.8	15°	432	508	560	556	497	121
30°-40°	262.0	24.9	14.6	25°	377	462	545	570	470	172
40°-50°	221.4	21.0	12.3	35°	267	366	471	502	415	167
50°-60°	111.1	10.5	6.2	45°	160	239	344	351	282	124
60°-70°	27.4	2.6	1.5	55°	86	129	139	124	96	79
70°-80°	7.4	0.7	0.4	65°	48	42	14	13	8	48
80°-90°	1.1	0.1	0.1	75°	19	14	2	1	2	20
90°-100°	0.0	0.0	0.0	85°	2	2	0	0	0	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	423.3	40.2	23.5							
0°-40°	685.4	65.0	38.1							
0°-60°	1017.8	96.6	56.5							
0°-90°	1053.7	100.0	58.5							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1053.7	100.0	58.5							



TEST NUMBER: P31443

CATALOG NUMBER: PD6H213E-62HWWC_13DTT

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	452	452	452	452	452	452	452	452	452
2.5°	448	451	454	460	463	463	459	459	459
5°	447	455	467	478	484	484	476	470	467
7.5°	444	460	480	496	504	502	494	485	475
10°	442	463	493	517	530	528	514	501	483
12.5°	439	464	503	532	548	547	536	520	490
15°	432	462	508	542	560	563	556	537	497
17.5°	423	459	505	544	566	577	568	546	499
20°	411	448	493	536	568	576	570	546	496
22.5°	395	429	478	523	559	571	569	538	485
25°	377	408	462	507	545	560	570	528	470
27.5°	356	386	444	492	527	546	558	513	456
30°	329	363	420	476	511	529	537	502	442
32.5°	300	338	395	454	489	506	518	487	429
35°	267	307	366	432	471	489	502	465	415
37.5°	236	274	331	409	452	474	473	434	398
40°	210	244	299	375	423	446	439	402	366
42.5°	184	216	271	338	386	408	399	364	326
45°	160	191	239	300	344	365	351	317	282
47.5°	137	165	210	259	291	306	296	268	238
50°	118	139	183	219	241	246	237	208	189
52.5°	101	117	155	179	188	190	179	154	141
55°	86	101	129	142	139	136	124	105	96
57.5°	76	85	100	109	103	97	83	65	60
60°	68	72	78	72	60	56	45	32	30
62.5°	60	61	58	45	34	30	25	17	16
65°	48	47	42	25	14	12	13	10	8
67.5°	38	36	30	15	5	3	3	3	3
70°	32	31	25	12	4	2	2	2	2
72.5°	25	25	19	8	3	2	2	2	2
75°	19	18	14	5	2	1	1	2	2
77.5°	12	12	9	3	2	1	1	1	1
80°	7	8	6	3	1	1	1	1	1
82.5°	5	5	4	2	0	0	0	0	0
85°	2	2	2	1	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)