

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: P31196

Luminaire Tested: **PD6H118E-62H1GC\_18DTT**

Issue Date: 03/03/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P31196  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: PD6H118E-62H1GC\_18DTT  
Description: HALO 6-INCH APERTURE LENSED DOWNLIGHT, HORIZONTAL LAMP.  
PRISMATIC GLASS LENS WITH SPECULAR CLEAR TRIM.  
Light Source: (1) GE G24Q-2 FOUR PIN QUAD CFL LAMP  
F18DBX/830/4P 18 WATTS  
Ballast/Driver: (1) UNIVERSAL ELECTRONIC BALLAST  
C218UNVBE

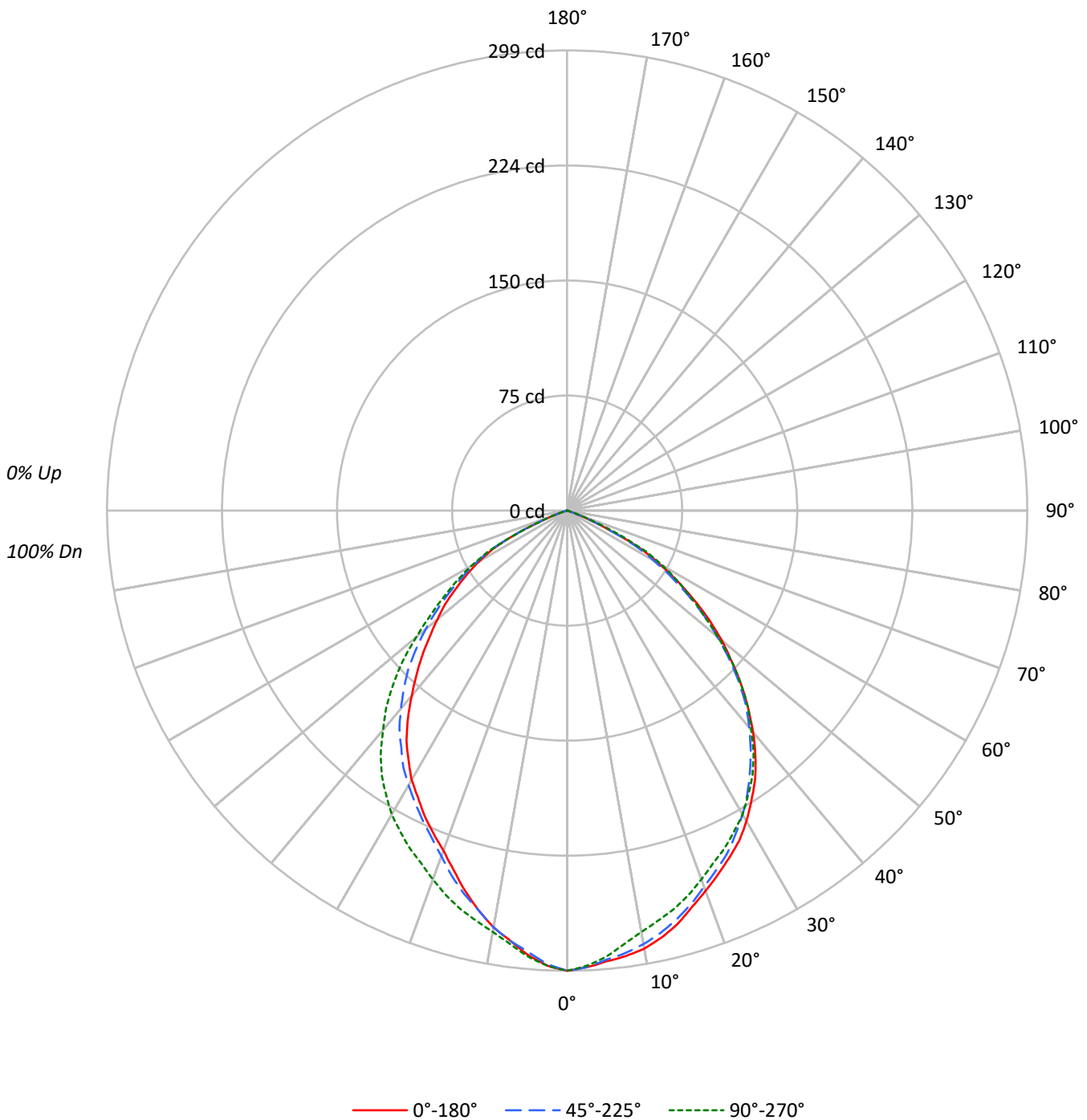
**Summary**

Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 576.8 lumens  
Efficiency: 48.1%  
Efficacy: 32.0 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.14 / 1.23  
Luminous Opening: Vertical Cylinder (Dia: 0.53' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 18  
Input Voltage (V): 120.03  
Input Current (A<sub>in</sub>): 0.15031  
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	57	57	57	57	56	56	56	56	53	53	53	51	51	51	49	49	49	48
1	54	52	50	49	52	51	49	48	49	48	46	47	46	45	45	44	44	43
2	50	46	44	42	48	46	43	41	44	42	40	42	41	39	41	40	38	37
3	46	42	38	36	45	41	38	35	39	37	35	38	36	34	37	35	34	33
4	42	37	34	31	41	37	33	31	36	33	30	35	32	30	34	31	30	29
5	39	34	30	27	38	33	30	27	32	29	27	31	29	27	31	28	26	25
6	36	31	27	24	36	30	27	24	29	26	24	29	26	24	28	25	23	23
7	34	28	24	22	33	28	24	21	27	24	21	26	23	21	26	23	21	20
8	32	26	22	19	31	25	22	19	25	22	19	24	21	19	24	21	19	18
9	30	24	20	18	29	23	20	18	23	20	17	22	19	17	22	19	17	16
10	28	22	18	16	27	22	18	16	21	18	16	21	18	16	20	18	16	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	14520	14520	14520
5°	14037	13894	13846
10°	13673	13152	13010
15°	13133	12660	12093
20°	12501	12120	11170
25°	12000	11663	10555
30°	11477	11231	9950
35°	10812	10660	9239
40°	9922	9817	8286
45°	8864	8864	7368
50°	7698	7522	6464
55°	6307	6181	5550
60°	4736	4941	4530
65°	2429	2884	2960
70°	428	770	770
75°	99	99	99
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	27.5	4.8	2.3	0°	299	299	299	299	299	
10°-20°	75.1	13.0	6.3	5°	294	293	291	288	290	28
20°-30°	108.6	18.8	9.1	15°	278	275	268	258	256	78
30°-40°	124.8	21.6	10.4	25°	249	246	242	222	219	115
40°-50°	116.9	20.3	9.7	35°	213	207	210	188	182	133
50°-60°	85.3	14.8	7.1	45°	160	158	160	146	133	123
60°-70°	36.4	6.3	3.0	55°	100	96	98	94	88	89
70°-80°	2.1	0.4	0.2	65°	32	32	38	39	39	34
80°-90°	0.0	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	211.2	36.6	17.6							
0°-40°	336.1	58.3	28.0							
0°-60°	538.3	93.3	44.9							
0°-90°	576.8	100.0	48.1							
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°	576.8	100.0	48.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	299	299	299	299	299	299	299	299	299
2.5°	297	297	297	297	296	296	295	296	296
5°	294	294	293	292	291	290	288	290	290
7.5°	292	291	290	287	284	283	282	282	282
10°	289	288	286	283	278	276	275	275	275
12.5°	284	283	281	278	273	269	266	267	266
15°	278	277	275	273	268	263	258	258	256
17.5°	270	269	268	266	262	256	249	247	245
20°	263	261	260	259	255	248	239	236	235
22.5°	256	254	253	252	248	240	230	227	227
25°	249	246	246	246	242	233	222	219	219
27.5°	242	237	237	239	235	227	214	209	210
30°	233	227	228	231	228	220	206	199	202
32.5°	223	217	218	222	219	212	198	189	192
35°	213	206	207	211	210	202	188	179	182
37.5°	201	195	196	199	199	193	179	168	170
40°	188	184	184	186	186	181	168	158	157
42.5°	174	171	172	173	174	169	157	147	145
45°	160	158	158	159	160	156	146	136	133
47.5°	145	144	143	144	145	141	133	124	121
50°	131	129	127	127	128	126	120	113	110
52.5°	116	114	112	111	112	111	107	102	100
55°	100	97	96	95	98	96	94	91	88
57.5°	84	82	80	80	85	84	81	79	77
60°	69	67	65	68	72	72	69	67	66
62.5°	55	52	51	54	58	59	57	55	55
65°	32	32	32	35	38	40	39	38	39
67.5°	15	15	16	18	20	22	21	20	20
70°	5	5	6	8	9	10	10	10	9
72.5°	1	1	1	2	2	3	3	3	3
75°	1	1	1	1	1	1	1	1	1
77.5°	0	1	1	1	1	1	1	1	1
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	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)