

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: P31434

Luminaire Tested: **PD8H142E-82HWWC_32TTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31434
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8H142E-82HWWC_32TTT
Description: HALO 8-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL
LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER
Light Source: (1) SYLVANIA GX24Q-3 SINGLE END FOUR PIN BASE TTT CFL LAMP
3500K
CF32DT/E/IN/835 32 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
SYLVANIA QTP2x26CF/UNV DM

Summary

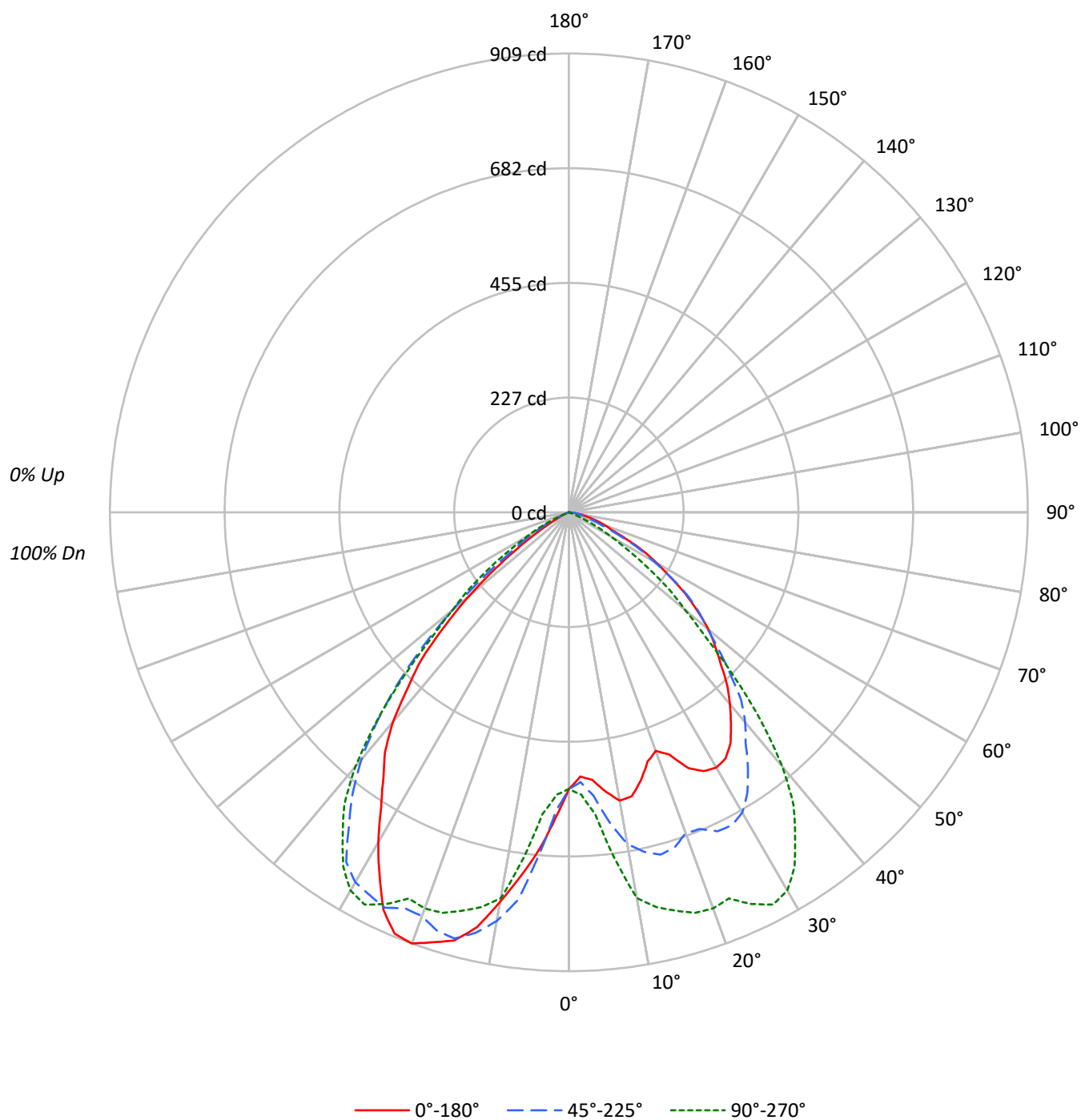
Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1682.5 lumens
Efficiency: 70.1%
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 1.55 / 1.72 / 1.49
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): 120.02
Input Current (Ain): 0.2748
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	83	83	83	83	82	82	82	82	78	78	78	75	75	75	72	72	72
1	78	76	73	71	76	74	72	70	71	70	68	69	67	66	66	65	64
2	73	68	64	61	71	67	63	60	64	62	59	62	60	58	60	58	57
3	67	61	57	53	66	60	56	53	58	55	52	56	53	51	55	52	50
4	62	55	50	46	61	55	50	46	53	49	45	51	48	45	50	47	44
5	58	50	45	41	57	49	44	41	48	44	40	47	43	40	46	42	39
6	54	46	40	36	53	45	40	36	44	39	36	43	39	36	42	38	35
7	50	42	36	32	49	41	36	32	40	36	32	39	35	32	38	35	32
8	47	38	33	29	46	38	33	29	37	32	29	36	32	29	35	32	29
9	44	35	30	26	43	35	30	26	34	30	26	33	29	26	33	29	26
10	41	33	27	24	40	32	27	24	32	27	24	31	27	24	30	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	14969	14969	14969
5°	14361	16197	18087
10°	15593	20862	21051
15°	14839	22042	23688
20°	13724	22782	24801
25°	15545	23804	24165
30°	16688	24718	21574
35°	16527	23132	18955
40°	15368	20388	16793
45°	13916	15324	13556
50°	12634	10499	9029
55°	10686	7162	4509
60°	8374	4083	1666
65°	5878	1773	560
70°	4170	267	160
75°	2906	126	63
80°	1869	78	0
85°	308	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.6	3.7	2.6
10°-20°	218.4	13.0	9.1
20°-30°	359.0	21.3	15.0
30°-40°	427.2	25.4	17.8
40°-50°	345.8	20.6	14.4
50°-60°	186.0	11.1	7.7
60°-70°	63.9	3.8	2.7
70°-80°	16.7	1.0	0.7
80°-90°	2.9	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	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°	640.0	38.0	26.7
0°-40°	1067.2	63.4	44.5
0°-60°	1599.0	95.0	66.6
0°-90°	1682.5	100.0	70.1
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°	1682.5	100.0	70.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	548	548	548	548	548	
5°	532	564	600	681	670	53
15°	550	702	817	874	878	154
25°	559	697	856	864	869	256
35°	558	618	781	760	640	345
45°	425	451	468	478	414	330
55°	282	286	189	149	119	250
65°	126	115	38	30	12	129
75°	46	34	2	1	1	50
85°	3	5	0	0	0	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	548	548	548	548	548	548	548	548	548
2.5°	524	528	535	545	560	578	592	603	606
5°	532	541	564	579	600	641	681	681	670
7.5°	558	578	620	659	691	741	775	735	726
10°	580	611	667	724	776	812	822	793	783
12.5°	576	624	689	745	801	835	853	850	842
15°	550	619	702	763	817	859	874	888	878
17.5°	518	599	696	773	832	874	869	890	893
20°	503	578	676	760	835	868	851	883	909
22.5°	519	578	679	755	828	863	849	877	903
25°	559	599	697	790	856	883	864	856	869
27.5°	578	609	699	807	876	899	855	825	812
30°	584	597	687	785	865	882	846	797	755
32.5°	578	575	658	746	832	841	821	745	692
35°	558	545	618	698	781	797	760	682	640
37.5°	527	515	575	653	731	747	704	637	598
40°	496	487	543	591	658	685	639	580	542
42.5°	464	454	505	512	567	591	562	515	473
45°	425	414	451	438	468	489	478	438	414
47.5°	393	387	402	367	369	390	389	358	333
50°	361	353	357	316	300	306	299	285	258
52.5°	321	322	325	272	248	235	222	190	183
55°	282	282	286	220	189	170	149	130	119
57.5°	237	241	239	170	137	125	109	82	72
60°	201	202	193	133	98	89	76	52	40
62.5°	167	156	159	99	67	60	51	33	23
65°	126	121	115	70	38	30	30	21	12
67.5°	92	91	79	40	9	4	4	4	6
70°	78	74	60	26	5	2	2	2	3
72.5°	61	59	46	17	3	2	2	2	2
75°	46	46	34	10	2	1	1	1	1
77.5°	33	36	25	6	1	1	1	1	1
80°	24	27	20	4	1	0	0	0	0
82.5°	12	15	15	3	0	0	0	0	0
85°	3	4	5	1	0	0	0	0	0
87.5°	0	1	1	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)