

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: P31437

Luminaire Tested: **PD8H242E-82HWWC_26DTT**

Issue Date: 03/03/2020



Test Information

Test Method: LM-79-08
Report Number: P31437
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PD8H242E-82HWWC_26DTT
Description: HALO 8-INCH APERTURE OPEN WALL WASH DOWNLIGHT, HORIZONTAL
LAMP, SPECULAR CLEAR TRIM WITH SPECULAR KICKER.
Light Source: (2) SYLVANIA G24Q-3 SINGLE END FOUR PIN BASE DTT CFL LAMP
4100K
CF26DD/E/IN/841 26 WATTS
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST
SYLVANIA QTP2x26CF/UNV DM

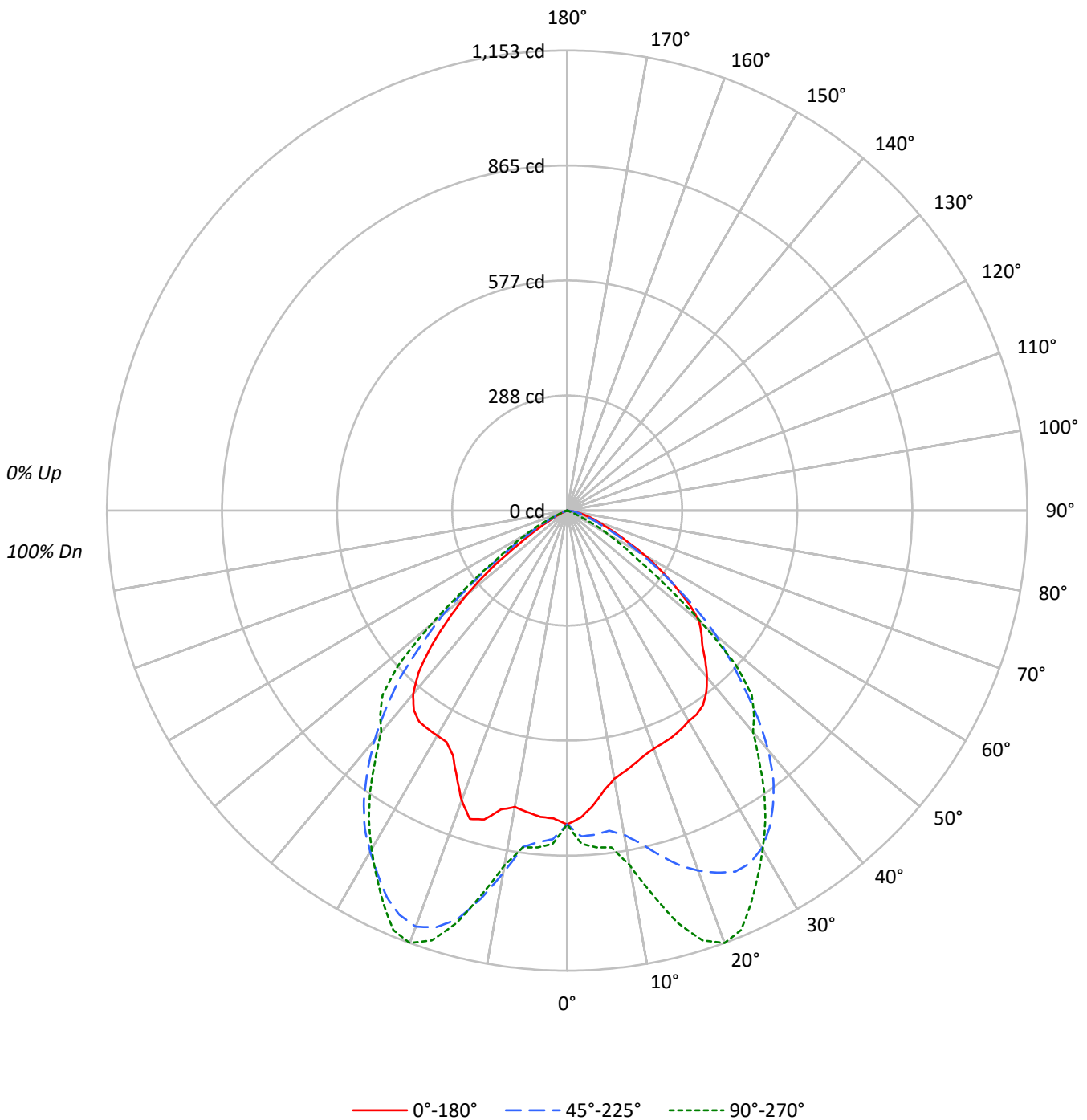
Summary

Lumens per Lamp: 1710 (2 lamps)
Luminaire Lumens: 2066.6 lumens
Efficiency: 60.4%
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.54 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
CIE Type: Direct

Input Watts (W): 45.5
Input Voltage (V): 120.03
Input Current (A_{in}): 0.3793
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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	60
1	67	65	63	62	66	64	62	61	61	60	59	59	58	57	57	56	55	54
2	63	59	55	53	61	58	55	52	56	53	51	54	52	50	52	50	49	48
3	58	53	49	46	57	52	48	45	50	47	45	49	46	44	47	45	43	42
4	54	48	43	40	53	47	43	40	46	42	39	44	41	39	43	40	38	37
5	50	43	39	35	49	43	38	35	41	38	35	40	37	34	39	36	34	33
6	46	39	35	31	45	39	34	31	38	34	31	37	33	31	36	33	30	29
7	43	36	31	28	42	35	31	28	35	31	28	34	30	27	33	30	27	26
8	40	33	28	25	39	33	28	25	32	28	25	31	27	25	30	27	25	24
9	38	30	26	23	37	30	26	23	29	25	23	29	25	22	28	25	22	21
10	35	28	24	21	35	28	23	21	27	23	21	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21470	21470	21470
5°	20030	22865	20786
10°	18335	24250	20271
15°	17698	28868	21610
20°	17325	31458	21090
25°	17380	30255	18826
30°	17402	28004	18603
35°	17593	25501	19133
40°	16886	22464	18591
45°	15684	21414	15815
50°	15119	15644	11514
55°	12505	8451	5798
60°	9415	4874	2208
65°	6298	1726	793
70°	4491	374	160
75°	3095	189	63
80°	1636	78	0
85°	205	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	78.1	3.8	2.3	0°	786	786	786	786	786	
10°-20°	265.5	12.8	7.8	5°	742	815	847	834	770	69
20°-30°	438.0	21.2	12.8	15°	656	894	1070	1059	801	185
30°-40°	509.6	24.7	14.9	25°	625	998	1088	1069	677	288
40°-50°	446.7	21.6	13.1	35°	594	900	861	888	646	368
50°-60°	236.4	11.4	6.9	45°	479	627	654	591	483	374
60°-70°	71.1	3.4	2.1	55°	330	332	223	210	153	295
70°-80°	18.6	0.9	0.5	65°	135	118	37	26	17	140
80°-90°	2.7	0.1	0.1	75°	49	38	3	1	1	53
90°-100°	0.0	0.0	0.0	85°	2	4	0	0	0	6
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°	781.6	37.8	22.9							
0°-40°	1291.2	62.5	37.8							
0°-60°	1974.2	95.5	57.7							
0°-90°	2066.6	100.0	60.4							
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°	2066.6	100.0	60.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	786	786	786	786	786	786	786	786	786
2.5°	770	790	817	828	836	836	824	798	772
5°	742	777	815	838	847	847	834	802	770
7.5°	707	747	809	843	851	865	850	800	762
10°	682	735	825	885	902	931	921	822	754
12.5°	669	745	854	945	984	1012	995	867	767
15°	656	755	894	1009	1070	1096	1059	911	801
17.5°	643	763	931	1057	1129	1149	1095	927	810
20°	635	774	960	1081	1153	1174	1109	913	773
22.5°	630	792	982	1077	1138	1164	1097	871	722
25°	625	811	998	1056	1088	1126	1069	842	677
27.5°	618	816	995	1014	1034	1061	1028	821	654
30°	609	805	976	976	980	1006	987	814	651
32.5°	605	781	943	940	924	959	944	800	649
35°	594	753	900	885	861	897	888	770	646
37.5°	573	710	849	824	790	829	822	728	631
40°	545	658	784	760	725	755	751	679	600
42.5°	513	603	709	703	693	690	672	609	551
45°	479	541	627	639	654	629	591	534	483
47.5°	456	494	554	570	573	545	491	449	405
50°	432	446	488	478	447	438	406	360	329
52.5°	386	390	411	372	324	319	302	261	243
55°	330	332	332	283	223	222	210	175	153
57.5°	277	286	265	213	165	152	141	115	94
60°	226	240	208	157	117	107	88	71	53
62.5°	173	189	162	112	76	67	52	41	32
65°	135	143	118	69	37	30	26	20	17
67.5°	103	108	87	37	11	5	5	5	5
70°	84	84	69	27	7	3	3	3	3
72.5°	66	67	54	20	4	2	2	2	2
75°	49	51	38	13	3	1	1	1	1
77.5°	35	37	27	9	2	1	1	1	1
80°	21	25	20	7	1	0	0	0	0
82.5°	11	14	14	4	0	0	0	0	0
85°	2	3	4	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)